Appendix H

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	**Validation Document Criteria**	**Form Number: NP 19-1-7** **Page 1 of 1**

1. **Software Name:** BRAGFLO
2. **Software Version:** 6.0
3. **Document Version:** 6.00 JL 4/5/07
4. **ERMS #:** 545018

Prior to sign-off of the VD, all items shall be appropriately addressed by the code sponsor so that "**Yes**" or "**N/A**" may be checked. Include this form as part of the VD.

5. **Is the following information included, where applicable?**

	Yes	N/A
(a) computer program and version tested	☒	☐
(b) computer hardware and operating system used	☒	☐
(c) test equipment and calibrations	☐	☒
(d) date of test	☒	☐
(e) tester or data recorder	☒	☐
(f) simulation models used,	☒	☐
(g) test problem input and output files	☒	☐
(h) results and acceptability	☒	☐
(I) action taken in connection with any deviations noted	☒	☐

6. **Test Result Validation**
The test results were compared to the following (check one or more, where applicable as based on code functionality):

	Yes	N/A
- hand calculations,	☒	☐
- manual inspection,	☒	☐
- calculations using comparable proven problems,	☒	☐
- empirical data & information from confirmed published data and correlations and/or technical literature,	☒	☐
- other validated software of similar purpose,	☒	☐
- other independent software of similar purpose.	☒	☐

7. **Test Documentation Acceptability** ☒ Yes
Do the tests meet the acceptance criteria identified in the approved VVP?

8. **Test Documentation Repeatability** ☒ Yes
Are the tests documented in sufficient detail such that they can be repeated?

9. **Computer File Documentation** ☒ Yes
Are the test case input and output files included in the Validation Document?

10. **Understandability of Documentation** ☒ Yes
Are the validation methods, test data, results, and conclusions documented in a form that can be understood by an independent, technically competent individual?

11.	Martin Nemer **Code Team/Sponsor** (*print*)	[signature] Signature	04/03/2007 Date
12.	Michael Riggins **Technical Reviewer** (*print*)	[signature] for Mike Riggins Signature	04/03/2007 Date
13.	Moo Y. Lee **Responsible Manager** (*print*)	[signature] Signature	4/3/2007 Date
14.	Jennifer Long **SCM Coordinator** (*print*)	Jennifer Long Signature	4/5/07 Date

Key for check boxes above:

Check **Yes** for each item reviewed and found acceptable
Check **N/A** for items not applicable

WIPP PA

VALIDATION DOCUMENT

For

BRAGFLO (Version 6.0)

Document Version 6.00
ERMS # 545018
April 2007

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1.0 INTRODUCTION & SUMMARY

The purpose of this document is to summarize the results of the testing activities prescribed in the *WIPP PA Requirements Document & Verification and Validation Plan for BRAGFLO Version 6.0* (Nemer, 2007) and to provide evaluations based on those results. These tests showed that BRAGFLO 6.0 satisfies the requirements of the RD/VVP for each of the fourteen test cases and that BRAGFLO 6.0 should be approved for use in Waste Isolation Pilot Project (WIPP) Performance Assessment (PA) analyses. This Validation Document is in accordance with the Nuclear Waste Management Procedure NP 19-1 (Chavez, 2006).

Sandia National Laboratories used regression testing to determine whether BRAGFLO 6.0 satisfies the acceptance criteria of the RD/VVP for Test Cases #1-13. Test Case #14 is validated in this analysis by evaluating BRAGFLO results with respect to the acceptance criteria specified in the RD/VVP, since it is a new test case for the new requirements in BRAGFLO 6.0.

Regression analyses are accomplished in this validation work by comparing results from BRAGFLO 6.0 to the corresponding results from BRAGFLO 5.0. BRAGFLO 5.0 has been validated on the ES40, ES45 and ES47 with OpenVMS 8.2 (Nemer, 2006). The VMS Difference command is used to compare ASCII output files from BRAGLO 6.0 with the corresponding output files from BRAGFLO 5.0.

Many differences between the two sets of output involved dates and times, file and directory names, platform names, code version and date, and execution statistics; these differences are acceptable. The restatement of new input information in BRAGFLO 6.0 output constitutes another body of acceptable differences. Information that is now included in input files to BRAGFLO for the new models has been added to improve documentation of BRAGFLO analyses, as well as aid in the validation.

1.1 Software Identifier

Code Name: BRAGFLO
WIPP Prefix: BF2
Version: 6.0
Revised: February 12, 2007

The previous versions of BRAGFLO are Version 5.0, dated 3/19/2003, Version 4.10, dated 5/8/97, Version 4.01, dated 5/30/96, and Version 4.00, dated 2/11/96.

The previous versions of the Validation Document (VD) are Version 5.02 (Stein and Zelinski, 2004b), dated 8/27/2004, Version 1.20 (Schreiber, 1997b), dated 5/12/97, Version 1.10 (Morin, 1996), dated 6/05/96, and Version 1.00 (Schreiber, 1996), dated 3/06/96.

1.2 Points of Contact

Code Sponsor:	Martin Nemer, Sandia National Laboratories, (505) 234-0005
Code Consultant:	Daniel Clayton, Sandia National Laboratories, (505) 234-0013
Tester:	Jennifer Long, Sandia National Laboratories, (505) 234-0106

1.3 Description of BRAGFLO 6.0

BRAGFLO is a program used to study two-phase (brine and gas), three-dimensional isothermal flow in porous media. It is used for assessing the performance of the WIPP, particularly the flow behavior in the immediate vicinity of the repository. The physical model is described by material balance equations for brine and gas, Darcy's law, and two phase fluid properties. The numerical model includes a cell-centered finite difference discretization, Newton solution of the nonlinear constitutive equations, and linear equation solvers necessary for the Newton iteration. Various submodels specific to WIPP include a pressure-induced fracture treatment, creep closure of the repository, and gas generation resulting from corrosion and biodegradation of waste components.

The primary purpose for revision of BRAGFLO version 5.0 to 6.0 is to incorporate Fe and MgO chemistry into the model. The additional chemistry is added to improve the water balance equations. Furthermore, several other models are included into BRAGFLO 6.0 to allow more flexibility.

2.0 TESTING ENVIRONMENT

BRAGFLO, Version 6.0, is tested in the following environment:

Hardware Platform:	Compaq ES40, ES45 and ES47
Operating System:	OpenVMS Version 8.2
CMS Library:	LIBBF

3.0 TEST TOOLS

TABLE 3.1 Software Tools Used for Testing.

NAME OF TOOL	FUNCTIONALITY
Source Code Analyzer V4.9 (SCA)	Builds call tree for subroutines Identifies unreachable subroutines.
Performance Coverage Analyzer V4.9 (PCA)	Determines adequacy of test case coverage
HP Fortran V8.0-104655-48F7C	Compile source code and identify array overflow or underflow
POSTBRAG 4.00	Converts BRAGFLO output binary file into CAMDAT file, enabling further analyses using GROPECDB and BLOT
GROPECDB 2.12	Examines CAMDAT (.CDB) files
BLOT 1.37	Plotting software used to plot BRAGFLO results

4.0 STATIC TESTING

Only the BRAGFLO module is identified as not being referenced by SCA. BRAGFLO is the main program and is the point where the execution begins, so no other routine calls this module.

The results of the static analysis are in the file BF2_SCA_MOD_NOT_REF_QB0600.TXT stored in the LIBBF library and are shown in Figure 4.1.

FIGURE 4.1 Static Testing Results

```
BRAGFLO procedure
    BRAGFLO\1266          SUBROUTINE or PROGRAM declaration
C CMS REPLACEMENT HISTORY, Element BF2_SCA_MOD_NOT_REF_QB0600.TXT
C *1    13-FEB-2007 07:50:01 BUILD_MASTER "Insert files from the prod build of
BRAGFLO version 6.0 into class QB0600."
C CMS REPLACEMENT HISTORY, Element BF2_SCA_MOD_NOT_REF_QB0600.TXT
```

5.0 COVERAGE TESTING

The coverage analysis executed all modules in the BRAGFLO source code that are used for the functionality being tested and all library modules directly referenced by BRAGFLO. The only modules flagged as not being covered are modules in BRAGFLO that needed for functionality not used for WIPP PA. The functionality not tested is documented in section 5.0 FUNCTIONALITY NOT TESTED in the RD/VVP for BRAGFLO (Nemer, 2007). The modules flagged as not being covered are the same modules as reported in the coverage analysis of BRAGFLO 4.10 (Schreiber 1997b). The seven new modules added for BRAGFLO 6.0 (BIOFES, BIOMGO, CORMGO, PORSOLID, RESETMID, SMOOTHPERM, STOREINT) are shown as covered in the testing.

The results of the coverage testing is in the file BF2_TEST_PCA_QB0600.TXT stored in the LIBBF library and are shown in Figure 5.1.

FIGURE 5.1 Coverage Analysis Results

```
                    Performance and Coverage Analyzer                Page 1

             Test Coverage Data (1210 data points total) - "*"

                                   Data
 Bucket Name                       Count   Percent
 BRAGFLO\
  BRAGFLO  . . . . . . . .          16      1.3%
  DATNTIM  . . . . . . . .          16      1.3%
  INITAL . . . . . . . . .          16      1.3%
  LABELS . . . . . . . . .          16      1.3%
  QABGNL . . . . . . . . .          16      1.3%
  READCNTRL  . . . . . . .          16      1.3%
  READFILES  . . . . . . .          16      1.3%
  READICS  . . . . . . . .          16      1.3%
  READMAT  . . . . . . . .          16      1.3%
  READMESH . . . . . . . .          16      1.3%
  READPRTYPE . . . . . . .          16      1.3%
  READSTARTUP  . . . . . .          16      1.3%
  READWELL . . . . . . . .          16      1.3%
```

READ_DIRICHLET	16	1.3%
SET_DELTA_DIRICHLET. . .	16	1.3%
STOREINT	16	1.3%
UNITSCONV	16	1.3%
ADJUSTICS	15	1.2%
BANDSTORE	15	1.2%
CLOSCHECK	15	1.2%
CUMULGEN	15	1.2%
DECBR	15	1.2%
DELTAMAP	15	1.2%
DENGZ	15	1.2%
DENO	15	1.2%
DENSAT1	15	1.2%
DEPINVERT	15	1.2%
DEPINVERT1	15	1.2%
DISOLVGAS	15	1.2%
FUNCT	15	1.2%
FUNCT7	15	1.2%
GEOMETRY	15	1.2%
GETJAC	15	1.2%
GETJACINDX	15	1.2%
GETOLD	15	1.2%
GETWELLS	15	1.2%
GETWELLS1	15	1.2%
KLINKBERG	15	1.2%
MAPDEP	15	1.2%
MASSBALNC	15	1.2%
MATERIALS	15	1.2%
MEAS_CONV	15	1.2%
PERMS	15	1.2%
PORSOLID	15	1.2%
PRINTASC	15	1.2%
PRINTCONTROL	15	1.2%
PRINTGRID	15	1.2%
PRINTLABS	15	1.2%
PROPS	15	1.2%
PROPS1	15	1.2%
PTHRESH	15	1.2%

Performance and Coverage Analyzer Page 2

Test Coverage Data (1210 data points total) - "*"

Bucket Name	Data Count	Percent
QAENDL	15	1.2%
RAPHSON	15	1.2%
READCLOSURE	15	1.2%
READFLUID	15	1.2%
READRAD	15	1.2%
READRXGAST	15	1.2%
READRXN	15	1.2%
REFCONDS	15	1.2%
RELPERM	15	1.2%
RESIDUAL	15	1.2%
ROCKCOMP	15	1.2%
RXGAST	15	1.2%
SET_MAIN_DIRICHLET . . .	15	1.2%
SMOOTHPERM	15	1.2%
SOLBR	15	1.2%
SOLUTION	15	1.2%
SOLVER	15	1.2%
SUMMARY	15	1.2%
TSAVG	15	1.2%
WRITEARRAY	15	1.2%
FMIN	14	1.2%
PRORDER	14	1.2%
TIMESTEP	14	1.2%
DENGZINT	11	0.9%
PRINTBIN	9	0.7%
PRINTHIV	9	0.7%
WRITBIN	9	0.7%
DISKW	4	0.3%
WRITHIV	4	0.3%
BIOFES	3	0.2%
BIOHUM	3	0.2%

```
  BIOMGO . . . . . . . . . .        3    0.2%
  BIOSAT . . . . . . . . . .        3    0.2%
  CONSOL1  . . . . . . . . .        3    0.2%
  CORHUM . . . . . . . . . .        3    0.2%
  CORSAT . . . . . . . . . .        3    0.2%
  LOCATE . . . . . . . . . .        3    0.2%
  POR_SURF . . . . . . . . .        3    0.2%
  RESET  . . . . . . . . . .        3    0.2%
  SET_RHS_DIRICHLET  . . .          3    0.2%
  TRI_INTERP . . . . . . .          3    0.2%
  PERMPHI  . . . . . . . .          2    0.2%
  CORMGO . . . . . . . . . .        1    0.1%
  RESETMID . . . . . . . . .        1    0.1%
  ALI2VAX  . . . . . . . . .        0    0.0%
  ALR2VAX  . . . . . . . . .        0    0.0%
  BANDIT . . . . . . . . . .        0    0.0%
  BL_INTERP  . . . . . . . .        0    0.0%
  BUBBLE . . . . . . . . . .        0    0.0%
  CONSOL . . . . . . . . . .        0    0.0%
  DASUM  . . . . . . . . . .        0    0.0%
  DAXPY  . . . . . . . . . .        0    0.0%

                       Performance and Coverage Analyzer                 Page 3

               Test Coverage Data (1210 data points total) - "*"

                                          Data
 Bucket Name                              Count  Percent
  DDOT . . . . . . . . . . .                0    0.0%
  DECAY  . . . . . . . . . .                0    0.0%
  DGBCO  . . . . . . . . . .                0    0.0%
  DGBFA  . . . . . . . . . .                0    0.0%
  DGBSL  . . . . . . . . . .                0    0.0%
  DISKR  . . . . . . . . . .                0    0.0%
  DSCAL  . . . . . . . . . .                0    0.0%
  FMAX . . . . . . . . . . .                0    0.0%
  GASC . . . . . . . . . . .                0    0.0%
  GEN_COEF . . . . . . . . .                0    0.0%
  IDAMAX . . . . . . . . . .                0    0.0%
  MULTIGRID  . . . . . . . .                0    0.0%
  RADIOLYSIS . . . . . . . .                0    0.0%
  RADTRANS . . . . . . . . .                0    0.0%
  RPGM_INTRFC  . . . . . . .                0    0.0%
  SOR  . . . . . . . . . . .                0    0.0%
  TTIME  . . . . . . . . . .                0    0.0%
  WHERE  . . . . . . . . . .                0    0.0%
  WHICH  . . . . . . . . . .                0    0.0%
 SYSTEM$SERVICE\
  SYSTEM$SERVICE . . . . . .                0     -
 SYSTEM$SPACE\
  SYSTEM$SPACE . . . . . .                  0     -

                       Performance and Coverage Analyzer                 Page 4

               Test Coverage Data (1210 data points total) - "*"

                 PCA Version V4.9         20-FEB-2007 17:16:13

TABULATE Command Summary Information:
Number of buckets tallied:                              124

Test Coverage Data - "*"
Number of covered buckets:                               95    76.6%
Number of acceptably not covered buckets:                 0     0.0%
Number of remaining not covered buckets:                 27    21.8%
Number of buckets with no coverage data:                  2     1.6%

Data count in largest defined bucket:                    16     1.3%
Data count in all defined buckets:                     1210   100.0%
Data count not in defined buckets:                        0     0.0%
Portion of above count in P0 space:                       0     0.0%
Number of PC values in P1 space:                          0     0.0%
Number of PC values in system space:                      0     0.0%

Total number of data values collected:                 1210   100.0%
```

```
Command qualifiers and parameters used:
  Qualifiers:
    /COVERAGE /DESCENDING /NOMINIMUM /NOMAXIMUM
    /NOCUMULATIVE /NOSOURCE /ZEROS /NOSCALE /NOCREATOR_PC
    /NOPATHNAME /NOCHAIN_NAME /WRAP /NOPARENT_TASK /NOKEEP /NOTREE
    /FILL=("*","O","x","@",":","#","/","+")
    /NOSTACK_DEPTH /NOMAIN_IMAGE
  Node specifications:
    PROGRAM_ADDRESS BY ROUTINE

No filters are defined
```

6.0 FUNCTIONAL TESTING

There are 24 functional requirements and 3 external interface requirements that BRAGFLO 6.0 must satisfy. These requirements are described in Section 2.0 REQUIREMENTS in the BRAGFLO RD/VVP (Nemer, 2007). Test Cases 1 – 13 are unchanged from the previous RD/VVP (Stein; Zelinski, 2004a), and are described in sections 9.0 through 9.13, which are used to show that BRAGFLO satisfies Requirements R.1 through R.19 and R.25 through R.27. Sections 6.1 through 6.13 of this document describe the corresponding results of these tests. Section 9.14 of the RD/VVP (Nemer, 2007) describes Test Case 14, which is new to this version of the RD/VVP. This test case specifically tests the new additions to requirements R.5, R.7, R.18, and the new requirements R.20-R.24, and results are presented in Section 6.14 of this document.

6.1 Test Case #1. Pressure Drawdown with Radial Grid.

6.1.1 Test Objective

The purpose of Test Case #1 is to verify that BRAGFLO can accurately calculate transient fluid pressures using a Cartesian representation of a radial grid by comparing BRAGFLO results with an analytical solution. This is a test of Functional Requirement R.15, for a single phase.

This is a very basic simulation of pressure drawdown in a radially symmetric reservoir as brine is injected into the center. The radially symmetric grid is represented by a one-dimensional Cartesian grid in which the Cartesian grid blocks preserve the volume of the corresponding radial grid blocks. The analytical solution to this problem is found in (Collins 1961):

$$p(r,t) = p_o + \frac{Q\mu}{4\pi kh}\left[-Ei\left(-\frac{\phi\mu\, c_b r^2}{4kt}\right) + Ei\left(-\frac{\phi\mu\, c_b r^2}{4k(t-t_s)}\right)\right] \qquad (6.1.1)$$

where

p = brine pressure [Pa],
p_o = initial brine pressure, 1.0×10^7 Pa,
Q = brine injection rate, -0.01 m^3/s,

μ = brine viscosity, 0.0018 Pa s,
k = permeability, 1.8×10^{-11} m^2,
h = thickness of formation, 1.0 m,
ϕ = porosity, 0.1 m^3 void/m^3 rock,
c_b = brine compressibility, 2.5 10^{-10} Pa^{-1},
r = radial distance from center [m],
t = time [s],
t_s = shut-in time, 5000 s,
Ei = exponential integral.

Plots of the analytical solution are shown in Figures 6.1.1 and 6.1.2; corresponding numerical values for the analytical solution are shown in Tables 6.1.1 and 6.1.2.

In addition, this test case tests the basic Functional Requirements R.1 to R.3, R.5 to R.7, R.11, and R.18, which describe the problem being tested. Functional Requirement R.16, the well models, is exercised, but is not examined explicitly in this test case. Functional Requirement R.15, flow calculations for two phases in a porous medium, is also implicitly tested.

FIGURE 6.1.1 Analytical Solution for Test Case #1: Pressure Drawdown at Shut-In Time, t = 5000 s

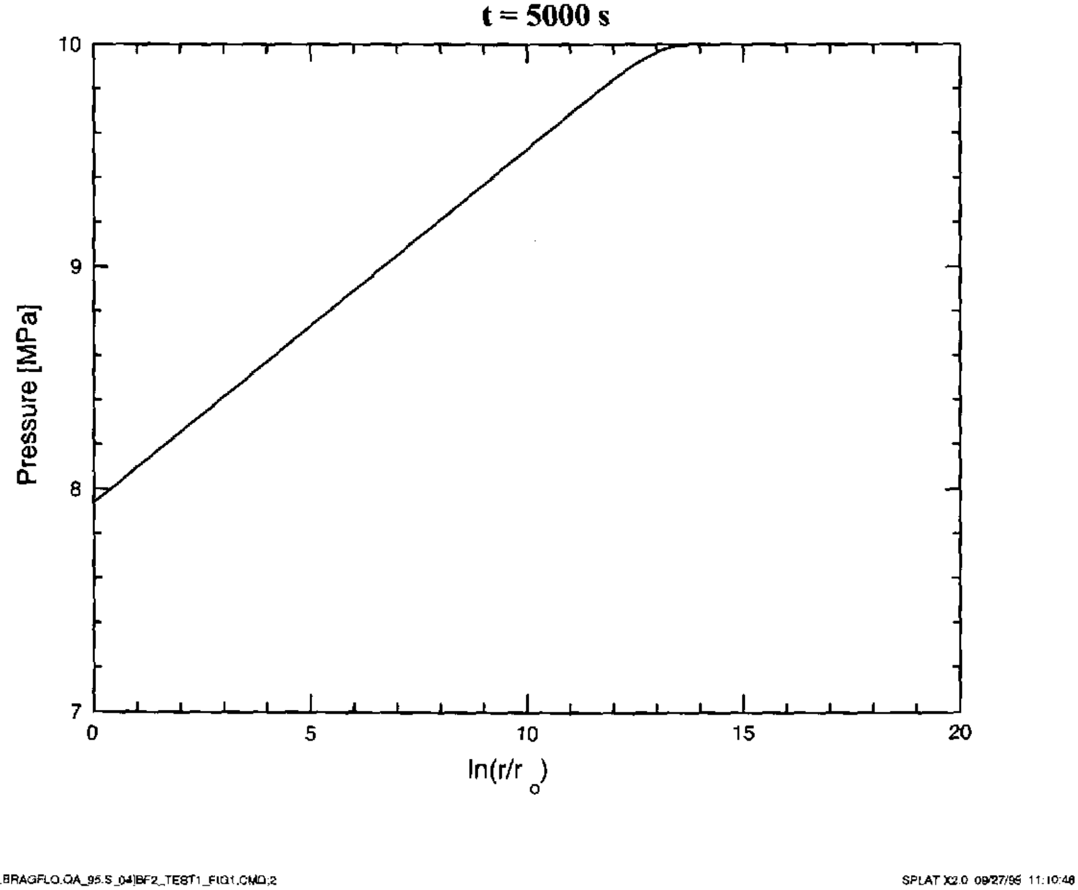
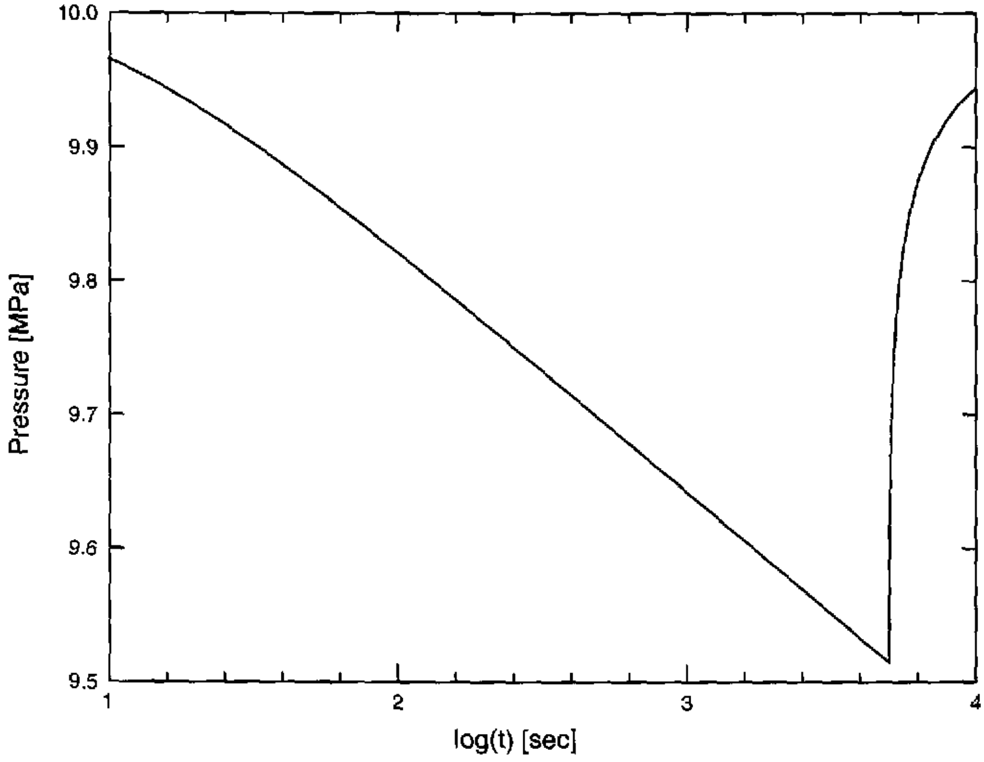


FIGURE 6.1.2 Analytical Solution for Test Case #1: Pressure Drawdown History at Distance from Well of r = 100.4 m



U1:[JDSCHRE.BRAGFLO.QA_95.S_04]BF2_TEST1_FIG2.CMD;1

SPLAT X2.0 09/27/95 11:15:05

TABLE 6.1.1 Analytical Solution for Test Case #1 from BF2_TEST1_RAD.DAT

$\ln(r/r_o)$	P, MPa
0.000000	7.937800
1.193922	8.127819
1.838961	8.230480
2.320130	8.307060
2.723274	8.371222
3.081870	8.428295
3.412430	8.480905
3.724259	8.530534
4.023076	8.578092
4.312603	8.624172
4.595371	8.669176
4.873151	8.713386
5.147215	8.757005
5.418486	8.800179
5.687649	8.843017
5.955211	8.885601
6.221555	8.927991
6.486971	8.970233
6.751675	9.012362
7.015836	9.054405
7.279581	9.096381
7.543005	9.138305
7.806184	9.180191
8.069174	9.222046
8.332020	9.263878
8.594754	9.305690
8.857403	9.347487
9.119987	9.389270
9.382519	9.431039
9.645013	9.472792
9.907477	9.514524
10.16992	9.556223
10.43234	9.597872
10.69475	9.639439
10.95715	9.680868
11.21954	9.722068
11.48193	9.762885
11.74431	9.803062
12.00668	9.842184
12.26906	9.879586
12.53143	9.914255
12.79380	9.944761
13.05617	9.969357
13.31853	9.986492
13.58090	9.995856
13.84327	9.999292
14.10563	9.999954
14.36800	9.999999
14.63036	10.000000
14.89273	10.000000

TABLE 6.1.2 Analytical Solution for Test Case #1 from BF2_TEST1_TIME.DAT

log(t [s])	P, MPa
1.000000	9.965941
1.518511	9.899661
1.698097	9.871513
1.856544	9.845393
2.001864	9.820676
2.138489	9.796954
2.269108	9.773948
2.395457	9.751467
2.518707	9.729377
2.639676	9.707577
2.758948	9.685997
2.876946	9.664582
2.993983	9.643294
3.110291	9.622101
3.226044	9.600982
3.341375	9.579919
3.456383	9.558899
3.571143	9.537911
3.685714	9.516949
3.698970	9.514524
3.699838	9.548423
3.700704	9.583422
3.701827	9.614340
3.703283	9.642222
3.705168	9.667996
3.707607	9.692266
3.710757	9.715413
3.714818	9.737676
3.720041	9.759200
3.726739	9.780065
3.735295	9.800299
3.746171	9.819888
3.759914	9.838787
3.777154	9.856920
3.798589	9.874189
3.824961	9.890481
3.857013	9.905676
3.895429	9.919663
3.940773	9.932348
3.993422	9.943670
4.000000	9.944891

6.1.2 Test Procedure

Test Case #1 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #1, .LOG files, BF2_QB0600_ES40_TEST1_RUN.LOG, BF2_QB0600_ES45_TEST1_RUN.LOG and BF2_QB0600_ES47_TEST1_RUN.LOG are included in Appendix A.1.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #1.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #1 for BRAGFLO 4.10, the acceptance criteria were comparisons with confirmed published data and technical literature and independent calculations, together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST1_POST.FOR was run to extract results from the BRAGFLO ASCII output file, BF2_TEST1.OUT, and place the results into two data files, BF2_TEST1_RAD.DAT and BF2_TEST1_TIME.DAT, which were input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.1.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST1.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.1.2. This file is generated by modifying the input file, BF2_TEST1_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST1_INP.DIF (Figure 6.1.3). As seen in Figure 6.1.3, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.1.3 Input File Differences for Test Case #1, BF2_QB0600_ES47_TEST1_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
   92    GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   93    50*0.0
   94    DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
   92    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
  148    NBORERESET
  149    0
  150    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
  146    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
  156    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  157    1.000000E-02 1.000000E-03
  158    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  159    0
  160    FRACTURE MODEL FLAG
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
  152    FRACTURE MODEL FLAG
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
  206    0.0 0.0 F
  207    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  208    1.0 1.0
  209    RATE CONSTANTS: BRUCITEI AND BRUCITEH
  210    0.0 0.0
  211    RATE COEFFICIENTS: RXH2S AND RXCO2
  212    CHEMISTRY CUTOFF SATURATION: SOCMIN
  213    0.0
  214    REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  215    2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  216    REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  217    8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  218    S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  219    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  220    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  221    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  222    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  223    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  224    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  225    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  226    REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
```

```
  227     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  228     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  229     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  230     WICKING SATURATION, LARXN, ALPHARXN
  231     0.0000E+00 F F 5.0000E+01
  232     WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
  198     0.0 0.0
  199     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  200     1.0 1.0
  201     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  202     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  203     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
  204     1.0E+00 0.0 1.0000E+00
  205     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
  206     1.0000E+00 0.0000E+00 1.0000E+00
  207     WICKING SATURATION, LARXN, ALPHARXN
  208     0.0000E+00 F 5.0000E+01
  209     WILL CREEP CLOSURE BE ACTIVATED?
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_TEST1_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.1.4 Test Results

Regression testing is used for Test Case #1 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST1.OUT, from Test Case #1 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST1.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST1_OUT.DIF, which is shown in Appendix A.1.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.1.4.

FIGURE 6.1.4 Summary of Difference Statistics for Test Case #1

```
Number of difference sections found: 98
Number of difference records found: 375

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 92 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST1.OUT and BF2_QB0600_ES45_TEST1.OUT, from Test Case #1 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST1.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST1_OUT.DIF and BF2_QB0600_ES45_TEST1_OUT.DIF (Appendix A.1.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #1 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #1 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.2 Test Case #2. Horizontal One-Dimensional Infiltration

6.2.1 Test Objective

The purpose of this test is to verify that BRAGFLO can accurately track a propagating wetting profile in a horizontal, partially saturated, one-dimensional system. In this problem, a semi-infinite horizontal tube of porous material is partially saturated with water. At time zero, the left end of the tube is wetted, raising the water content to full saturation; the saturation is held constant thereafter at fully saturated condition. The flow of water along the tube is to be calculated. This tests the fundamental Functional Requirement R.15, the calculation of multiphase flow in a porous medium.

Test Case #2 has a semi-analytical solution originally solved by Philip (1955) and described by (Ross et al. 1982), and are listed in Tables 6.2.1 and 6.2.2. The solution was featured as Sample Problem No. 2 in the TOUGH User's Guide (Pruess 1987). It has been further described by (Updegraff 1989) and by (Moridis and Pruess 1992). The semi-analytical solution is shown in Figure 6.2.1, in which water saturation profiles along the tube are shown at different times.

In addition, this test case tests the basic Functional Requirements R.1 to R.3, R.5 to R.8, R.15 and R.18 which describe the problem being tested, and R.11 and R.12, the equations of state for fluids.

This test case uses linear relative permeability and capillary models:

$$k_{rw} = \begin{cases} 0, & S_w \le S_{wr} \\ \dfrac{S_w - S_{wr}}{1 - S_{wr} - S_{nwr}}, & S_{wr} < S_w < 1 - S_{nwr} \\ 1, & S_w \ge 1 - S_{nwr} \end{cases} \tag{6.2.1}$$

$$k_{rnw} = 1 - k_{rw} \tag{6.2.2}$$

$$P_c = \begin{cases} P_{c,\max}, & S_w \le S_{wr} \\ \left(P_{ct} - P_{c,\max}\right)\dfrac{S_w - S_{wr}}{1 - S_{wr} - S_{nwr}} + P_{c,\max}, & S_{wr} < S_w < 1 - S_{nwr} \\ P_{ct}, & S_w \ge 1 - S_{nwr} \end{cases} \tag{6.2.3}$$

where

k_{rw} = brine relative permeability,
k_{rnw} = gas relative permeability,
S_w = wetting phase (brine) saturation,
S_{wr} = brine residual saturation = 0.3333333,
S_{nwr} = nonwetting phase (gas) residual saturation = 0.0,

P_c = capillary pressure [Pa],
$P_{c,max}$ = maximum capillary pressure [Pa] = 9807.0 Pa
P_{ct} = threshold capillary pressure [Pa] = 0.0 Pa.

TABLE 6.2.1 Water Saturation Values for Analytical Solution to Test Cases #2 and #3.
DATA FROM TABLE 4.1 OF ROSS *ET AL.* (1982)

(page 1 of 2)

BF2_TEST2_ASAT01.DAT (864 s)
BF2_TEST3_ASAT01.DAT (864 s)

Distance, m	S_w
0.00000	1.0000
0.00302	0.9556
0.00726	0.8889
0.01249	0.8000
0.01744	0.7111
0.02237	0.6222
0.02780	0.5333
0.03403	0.4667

BF2_TEST2_ASAT06.DAT (5184 s)
BF2_TEST3_ASAT06.DAT (5184 s)

Distance, m	S_w
0.00000	1.0000
0.00376	0.9778
0.00741	0.9556
0.01440	0.9111
0.02107	0.8667
0.03059	0.8000
0.03972	0.7333
0.04572	0.6889
0.05173	0.6444
0.05479	0.6222
0.06112	0.5778
0.07211	0.5111
0.08334	0.4667

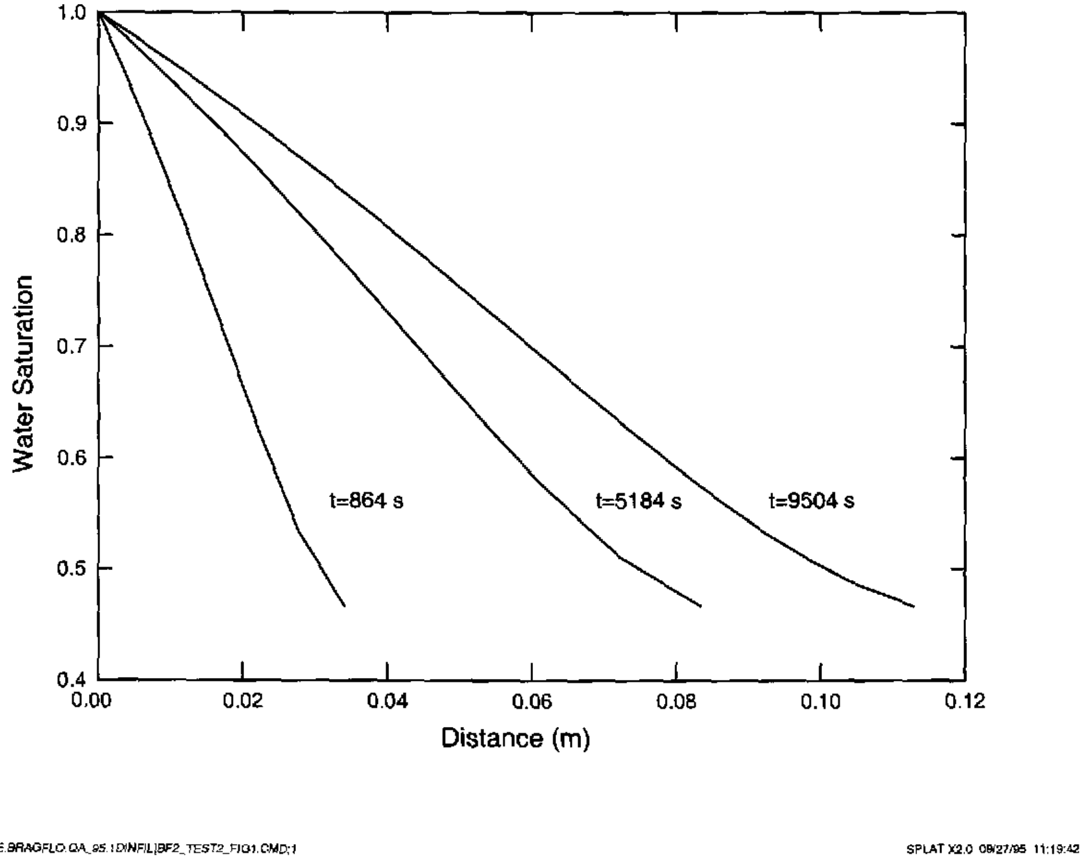
TABLE 6.2.2 Water Saturation Values for Analytical Solution to Test Cases #2 and #3.
DATA FROM TABLE 4.1 OF ROSS *ET AL.* (1982)

(page 2 of 2)

BF2_TEST2_ASAT11.DAT (9504 s)
BF2_TEST3_ASAT11.DAT (9504 s)

Distance, m	S_w
0.00000	1.0000
0.00509	0.9778
0.01003	0.9556
0.01483	0.9333
0.01950	0.9111
0.02406	0.8889
0.02852	0.8667
0.03290	0.8444
0.03719	0.8222
0.04141	0.8000
0.04558	0.7778
0.04970	0.7556
0.05379	0.7333
0.05785	0.7111
0.06190	0.6889
0.06596	0.6667
0.07004	0.6444
0.07418	0.6222
0.07840	0.6000
0.08276	0.5778
0.08733	0.5556
0.09221	0.5333
0.09764	0.5111
0.10407	0.4889
0.11285	0.4667

FIGURE 6.2.1 Analytical Solution for Test Case #2: Saturation Profiles along Tube at various Times for One-Dimensional Infiltration Problem



6.2.2 Test Procedure

Test Case #2 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #2, .LOG files, BF2_QB0600_ES40_TEST2_RUN.LOG, BF2_QB0600_ES45_TEST2_RUN.LOG and BF2_QB0600_ES47_TEST2_RUN.LOG are included in Appendix A.2.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #2.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #2 for BRAGFLO 4.10, the acceptance criteria were comparisons with confirmed published data and technical literature and independent calculations, together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST2_BSAT.FOR was run to extract results from the BRAGFLO ASCII output file, BF2_TEST2.OUT, and place the results into three data files, BF2_TEST2_ASAT01.DAT, BF2_TEST2_ASAT06.DAT, and BF2_TEST2_ASAT11.DAT, which were input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.2.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST2.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.2.2. This file is generated by modifying the input file, BF2_TEST2_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST2_INP.DIF (Figure 6.2.2). As seen in Figure 6.2.2, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.2.2 Input File Differences for Test Case #2, BF2_QB0600_ES47_TEST2_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
   64     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   65     41*0.0
   66     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500.INP;1
   64     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
  120     NBORERESET
  121     0
  122     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500.INP;1
  118     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
  128     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  129     1.000000E-02 1.000000E-03
  130     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  131     0
  132     FRACTURE MODEL
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500.INP;1
  124     FRACTURE MODEL
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
  178     0.0 0.0 F
  179     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  180     0.0 0.0
  181     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  182     0.0 0.0
  183     RATE COEFFICIENTS: RXH2S AND RXCO2
  184     CHEMISTRY CUTOFF SATURATION: SOCMIN
  185     0.0
  186     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  187     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  188     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  189     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  190     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  191     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  192     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  193     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  194     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  195     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  196     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  197     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  198     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  199     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  200     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  201     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  202     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  203     0.0 F F 2000.
  204     WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500.INP;1
  170     0.0 0.0
  171     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  172     0.0 0.0
  173     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  174     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  175     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
  176     1.0683E+00 1.8633E+00 1.0000E+00
```

```
  177     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  178     1.2290E+00 0.0000E+00 1.0000E+00
  179     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  180     0.0 F 2000.
  181     WILL CREEP CLOSURE BE ACTIVATED?
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_TEST2_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.2.4 Test Results

Regression testing is used for Test Case #2 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST2.OUT, from Test Case #2 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST2.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST2_OUT.DIF, which is shown in Appendix A.2.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.2.3.

FIGURE 6.2.3 Summary of Difference Statistics for Test Case #2

```
Number of difference sections found: 16
Number of difference records found: 198

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 10 sections
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST2.OUT and BF2_QB0600_ES45_TEST2.OUT, from Test Case #2 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST2.OUT, using the

VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST2_OUT.DIF and BF2_QB0600_ES45_TEST2_OUT.DIF (Appendix A.2.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #2 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #2 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.3 Test Case #3. Horizontal One-Dimensional Infiltration, With Dirichlet Boundary Condition.

6.3.1 Test Objective

This test is identical to Test Case #2 except that the Dirichlet boundary condition feature in BRAGFLO, Functional Requirement R.4, is applied. Only Functional Requirements R.4 and R18 are tested, since other applicable requirements are tested in Test Case #2. In Test Case #2, the water saturation at the left boundary was not actually fixed, as the problem statement requires. Instead, the grid cell at the left boundary was made very large so that the pressure and water saturation in that cell do not change appreciably over the course of the run. This is an approximation that is satisfactory as long as the input is sized properly, both in the physical size of the mesh and in the simulated duration of the run. A more exact and rigorous approach is to apply a Dirichlet condition at the boundary. Using this feature in BRAGFLO, the pressure and water saturation at the left boundary can be fixed at exactly the value specified. The purpose of this test is to verify that BRAGFLO can hold the pressure and water saturation fixed, at values specified in the input, at specified grid cells, while continuing to track accurately a propagating wetting profile in a horizontal, partially saturated, one-dimensional system. In addition, completion of this test requires that output files be written which will confirm R.18.

6.3.2 Test Procedure

Test Case #3 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #3, .LOG files, BF2_QB0600_ES40_TEST3_RUN.LOG, BF2_QB0600_ES45_TEST3_RUN.LOG and BF2_QB0600_ES47_TEST3_RUN.LOG are included in Appendix A.3.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #3.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #3 for BRAGFLO 4.10, the acceptance criteria were comparisons with confirmed published data and technical literature and independent calculations, together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST3_BSAT.FOR was run to extract results from the BRAGFLO ASCII output file, BF2_TEST3.OUT, and place the results into three data files, BF2_TEST3_ASAT01.DAT, BF2_TEST3_ASAT06.DAT, and BF2_TEST3_ASAT11.DAT, which were input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.3.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST3.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.3.2. This file is generated by modifying the input file, BF2_TEST3_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST3_INP.DIF (Figure 6.3.1). As seen in Figure 6.3.1, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.3.1 Input File Differences for Test Case #3, BF2_QB0600_ES47_TEST3_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
   65     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   66     41*0.0
   67     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500.INP;1
   65     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  121     NBORERESET
  122     0
  123     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500.INP;1
  119     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  129     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  130     1.000000E-02 1.000000E-03
  131     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  132     0
  133     FRACTURE MODEL
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500.INP;1
  125     FRACTURE MODEL
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
  179     0.0 0.0 F
  180     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  181     0.0 0.0
  182     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  183     0.0 0.0
  184     RATE COEFFICIENTS: RXH2S AND RXCO2
  185     CHEMISTRY CUTOFF SATURATION: SOCMIN
  186     0.0
  187     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  188     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  189     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  190     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  191     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  192     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  193     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  194     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  195     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  196     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  197     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  198     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  199     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  200     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  201     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  202     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  203     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  204     0.0 F F 2000.
  205     WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500.INP;1
  171     0.0 0.0
  172     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  173     0.0 0.0
  174     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  175     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  176     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
  177     1.0683E+00 1.8633E+00 1.0000E+00
  178     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  179     1.2290E+00 0.0000E+00 1.0000E+00
  180     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  181     0.0 F 2000.
  182     WILL CREEP CLOSURE BE ACTIVATED?
```

```
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_TEST3_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.3.4 Test Results

Regression testing is used for Test Case #3 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST3.OUT, from Test Case #3 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST3.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST3_OUT.DIF, which is shown in Appendix A.3.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.3.2.

FIGURE 6.3.2 Summary of Difference Statistics for Test Case #3

```
Number of difference sections found: 18
Number of difference records found: 200

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 12 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST3.OUT and BF2_QB0600_ES45_TEST3.OUT, from Test Case #3 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST3.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST3_OUT.DIF and BF2_QB0600_ES45_TEST3_OUT.DIF (Appendix

A.3.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #3 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #3 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.4 Test Case #4. Two-Dimensional Infiltration.

6.4.1 Test Objective

The purpose of this test is to verify that BRAGFLO can accurately track a propagating wetting profile in a partially saturated, vertical, two-dimensional system. Results are compared both with TOUGH and with experimental measurements made by Vauclin et al. (1979).

A vertical slab of soil has dimensions 3 m by 2 m. At initial time, the water table is located 0.65 m from the bottom. In this saturated region, the water saturation is 1.0, and the water is in gravity equilibrium. Above the water table, the soil is unsaturated and in gravity/capillary equilibrium. The lower boundary and left boundary (line of symmetry) are impervious to flow. The right boundary is a mixed type, with the surface below the water table a constant pressure and constant water saturation of 1. Above the water table, the right boundary is a seepage surface in which the water flux is zero when the surface is unsaturated and maintains a pressure equal to the hydraulic head when the surface is saturated. The seepage face across the top surface is simulated by a no-flow boundary, as discussed by Moridis and Pruess (1992). Beginning at initial time, infiltration is modeled by water injection along the first 0.5 m of the top surface at a fixed rate of 4.111 × 10-5 m/s. Figure 6.4.1 shows water content as a function of depth into the soil slab at various times after the start of recharge, and compares TOUGH simulation results with experimental results at a horizontal distance of 0.19 m from the line of symmetry. In Figure 6.4.2, TOUGH and experimental results are compared at a distance of 1.39 m from the line of symmetry.

Simulating the advance of the saturation front during the recharge of the system using BRAGFLO is a test of Functional Requirement R.15. Use of a well model to inject water is a test of Functional Requirement R.16.

The BRAGFLO and TOUGH solutions use a relative permeability and capillary pressure model specific to this test case based on experimental measurements and analyses done by (Vauclin et al. 1979). Their correlations for unsaturated hydraulic conductivity and moisture content as functions of capillary head have been converted to correlations for relative permeability and capillary pressure as follows:

$$S_e = \frac{1-S_w}{S_w} \tag{6.4.1}$$

$$k_{rw} = \frac{1}{1+28.768353 S_e^{1.7241379}} \tag{6.4.2}$$

$$k_{rnw} = 1 - k_{rw} \tag{6.4.3}$$

$$P_c = 3783.0145 S_e^{(1/2.9)} \tag{6.4.4}$$

where

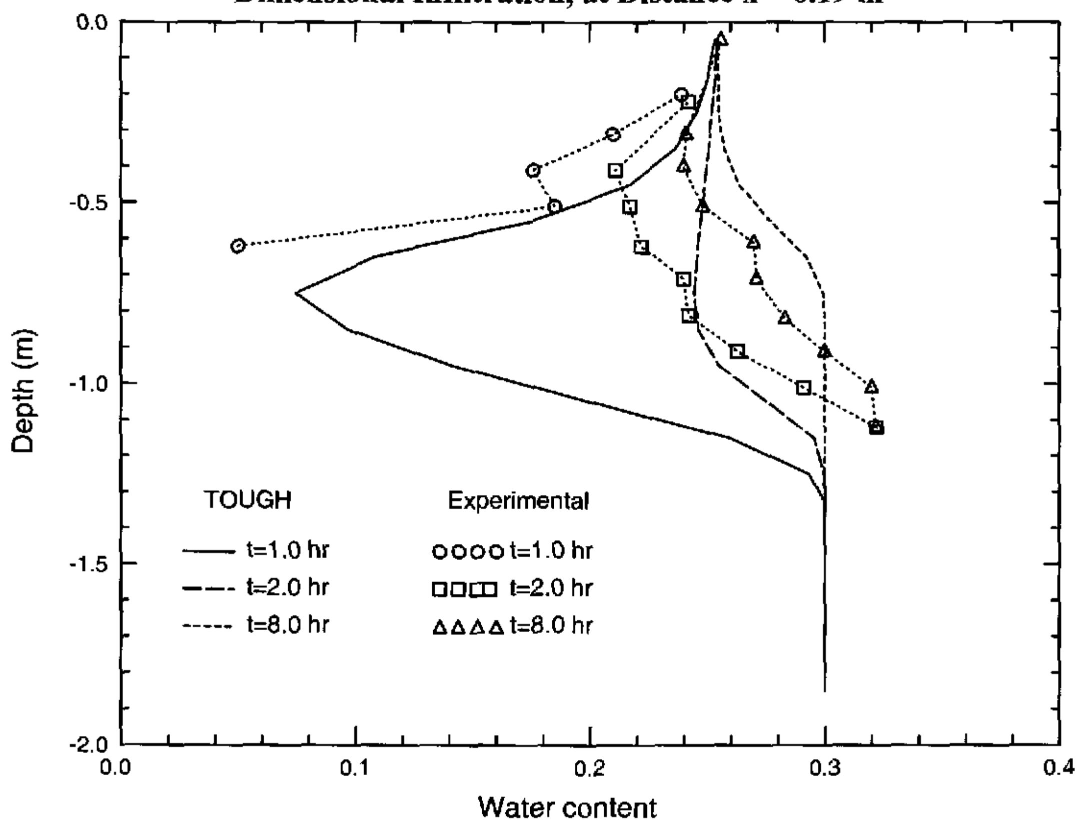
S_w = wetting phase (brine) saturation,

S_e = effective brine saturation,
k_{rw} = brine relative permeability,
k_{rnw} = gas relative permeability,
P_c = capillary pressure [Pa],

Although these models are not used in the compliance calculations, their use in this test case requires that they be tested to validate Functional Requirement R.8.

In addition, this test case tests the basic Functional Requirements R.1 to R.3, R.5 to R.7, and R.18, which describe the problem being tested, and R.11 to R.12, the equations of state for the fluids.

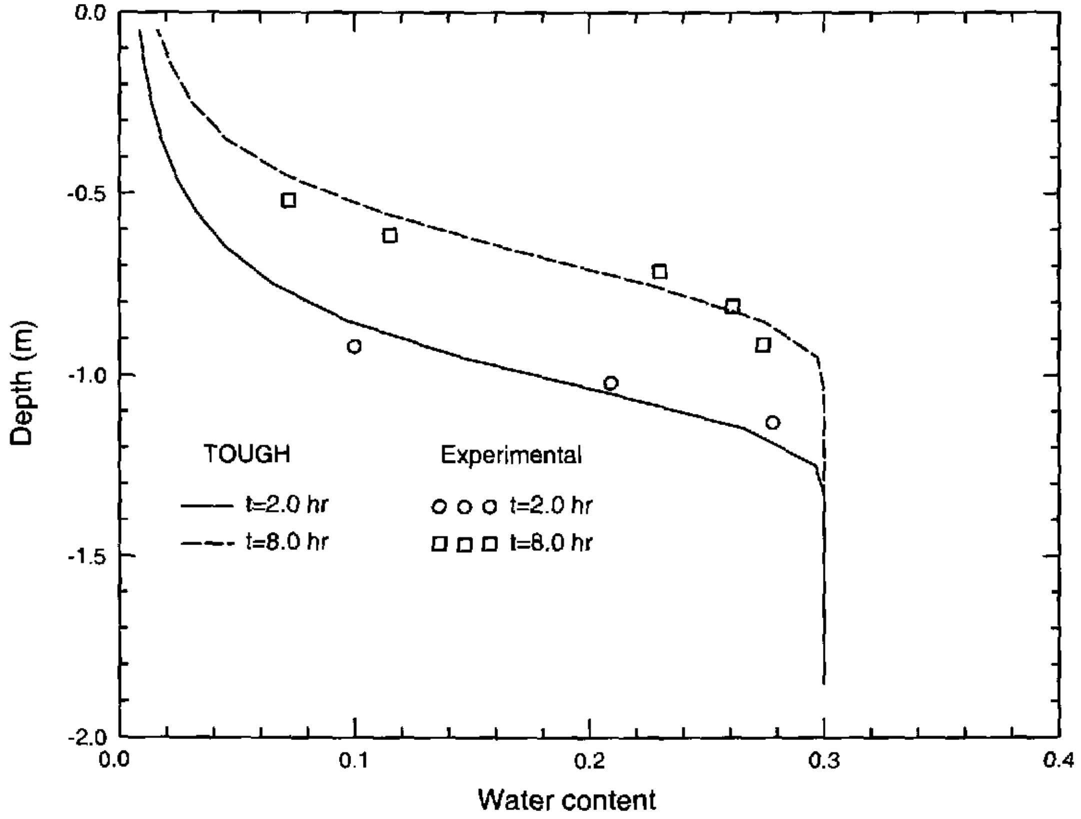
FIGURE 6.4.1 Comparison of TOUGH and Experimental Results for Test Case #4, Two-Dimensional Infiltration, at Distance x = 0.19 m



U1:[JDSCHRE.BRAGFLO.QA_95.TEST4.CMS]BF2_TEST4_ET019.CMD;9

SPLAT X2.0 03/04/96 15:26:17

FIGURE 6.4.2 Comparison of TOUGH and Experimental Results for Test Case #4, Two-Dimensional Infiltration, at Distance x = 1.39 m



U1:[JDSCHRE.BRAGFLO.QA_95.TEST4.CMS]BF2_TEST4_ET139.CMD;5

SPLAT X2.0 03/04/96 15:26:41

TABLE 6.4.1 Results from TOUGH Run on Test Case #4 BF2_TEST4_T019.DAT

Depth, m	Water content, @ 1 hr	Water content, @ 2 hr	Water content, @ 8 hr
-0.185000E+01	0.300000E+00	0.300000E+00	0.299998E+00
-0.160000E+01	0.300000E+00	0.300000E+00	0.299996E+00
-0.145000E+01	0.300000E+00	0.300000E+00	0.299995E+00
-0.137500E+01	0.300000E+00	0.299998E+00	0.299995E+00
-0.132500E+01	0.299741E+00	0.299995E+00	0.299995E+00
-0.125000E+01	0.293448E+00	0.299832E+00	0.299995E+00
-0.115000E+01	0.259416E+00	0.295374E+00	0.299995E+00
-0.105000E+01	0.200817E+00	0.275683E+00	0.299995E+00
-0.950000E+00	0.141698E+00	0.255134E+00	0.299995E+00
-0.850000E+00	0.968315E-01	0.246188E+00	0.299995E+00
-0.750000E+00	0.746775E-01	0.244559E+00	0.299524E+00
-0.650000E+00	0.107866E+00	0.245577E+00	0.292184E+00
-0.550000E+00	0.175588E+00	0.247272E+00	0.276760E+00
-0.450000E+00	0.217329E+00	0.249016E+00	0.263738E+00
-0.350000E+00	0.236401E+00	0.250650E+00	0.257223E+00
-0.250000E+00	0.245551E+00	0.252151E+00	0.254987E+00
-0.150000E+00	0.250445E+00	0.253514E+00	0.254731E+00
-0.500000E-01	0.253323E+00	0.254704E+00	0.255223E+00

BF2_TEST4_T139.DAT

Depth, m	Water content, @ 1 hr	Water content, @ 2 hr	Water content, @ 8 hr
-0.185000E+01	0.300000E+00	0.300000E+00	0.300000E+00
-0.160000E+01	0.300000E+00	0.300000E+00	0.299998E+00
-0.145000E+01	0.300000E+00	0.300000E+00	0.299996E+00
-0.137500E+01	0.300000E+00	0.300000E+00	0.299995E+00
-0.132500E+01	0.299753E+00	0.299900E+00	0.299995E+00
-0.125000E+01	0.293754E+00	0.296374E+00	0.299995E+00
-0.115000E+01	0.260233E+00	0.267609E+00	0.299995E+00
-0.105000E+01	0.201661E+00	0.209473E+00	0.299999E+00
-0.950000E+00	0.142053E+00	0.145442E+00	0.297273E+00
-0.850000E+00	0.963190E-01	0.968238E-01	0.273986E+00
-0.750000E+00	0.654303E-01	0.654490E-01	0.224906E+00
-0.650000E+00	0.454165E-01	0.454184E-01	0.163896E+00
-0.550000E+00	0.324071E-01	0.324112E-01	0.110138E+00
-0.450000E+00	0.237719E-01	0.237745E-01	0.708199E-01
-0.350000E+00	0.178859E-01	0.178875E-01	0.455588E-01
-0.250000E+00	0.137646E-01	0.137661E-01	0.310136E-01
-0.150000E+00	0.108054E-01	0.108072E-01	0.223133E-01
-0.500000E-01	0.863170E-02	0.863365E-02	0.163043E-01

6.4.2 Test Procedure

Test Case #4 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #4, .LOG files, BF2_QB0600_ES40_TEST4_RUN.LOG, BF2_QB0600_ES45_TEST4_RUN.LOG and BF2_QB0600_ES47_TEST4_RUN.LOG are included in Appendix A.4.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #4.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #4 for BRAGFLO 4.10, the acceptance criteria were comparisons with confirmed published data and technical literature and independent calculations, together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST4_BSAT.FOR was run to extract results from the BRAGFLO ASCII output file, BF2_TEST4.OUT, and place the results into a data file, which was input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.4.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST4.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.4.2. This file is generated by modifying the input file, BF2_TEST4_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST4_INP.DIF (Figure 6.4.3). As seen in Figure 6.4.3, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.4.3 Input File Differences for Test Case #4, BF2_QB0600_ES47_TEST4_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  114     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  115     378*0.0
  116     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
  114     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  188     NBORERESET
  189     0
  190     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
  186     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  199     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  200     1.000000E-02 1.000000E-03
  201     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  202     0
  203     FRACTURE MODEL
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
  195     FRACTURE MODEL
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
  249     0.0 0.0 F
  250     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  251     0.0 0.0
  252     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  253     0.0 0.0
  254     RATE COEFFICIENTS: RXH2S AND RXCO2
  255     CHEMISTRY CUTOFF SATURATION: SOCMIN
  256     0.0
  257     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  258     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  259     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  260     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  261     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
```

```
  262     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  263     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  264     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  265     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  266     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  267     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  268     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  269     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, (C6-H10-O5)/6)
  270     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  271     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  272     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  273     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  274     0.0 F F 2000.
  275     WILL CREEP CLOSURE BE ACTIVATED? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
  241     0.0 0.0
  242     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  243     0.0 0.0
  244     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, (C6-H10-O5)/6
  245     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  246     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
  247     1.0683E+00 1.8633E+00 1.0000E+00
  248     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  249     1.2290E+00 0.0000E+00 1.0000E+00
  250     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  251     0.0 F 2000.
  252     WILL CREEP CLOSURE BE ACTIVATED? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_TEST4_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.4.4 Test Results

Regression testing is used for Test Case #4 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST4.OUT, from Test Case #4 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST4.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST4_OUT.DIF, which is shown in Appendix A.4.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.4.4.

FIGURE 6.4.4 Summary of Difference Statistics for Test Case #4

```
Number of difference sections found: 18
Number of difference records found: 203

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 12 sections;

- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST4.OUT and BF2_QB0600_ES45_TEST4.OUT, from Test Case #4 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, were compared to the output file, BF2_QB0600_ES47_TEST4.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST4_OUT.DIF and BF2_QB0600_ES45_TEST4_OUT.DIF (Appendix A.4.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #4 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #4 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.5 Test Case #5. Two-Dimensional, Two-Phase Flow With Gas Injection.

6.5.1 Test Objective

The purpose of this test is to verify the ability of BRAGFLO to model gas injection (or generation) and the subsequent migration of gas in a two-phase system (Functional Requirements R.15 and R.16). This problem consists of a two-dimensional vertical cross section with a gas injection well located at the center of a 22m by 21m region. Because of symmetry with respect to a vertical plane through the well, only the solution on the right half of the region needs to be obtained, so a 11m by 21m region is modeled. The reservoir is initialized to gravity/capillary equilibrium. Gas is injected at a constant rate from initial time until time 1.0×10^7 s. TOUGH was run on the same problem to provide a comparison of the BRAGFLO results. The TOUGH results are shown in Figures 9.5.1 to 9.5.4. In addition, this test case tests the basic Functional Requirements R.1 to R.3, R.5 to R.7, and R.18, which describe the problem being tested, and R.11 to R.12, the equations of state for the fluids.

FIGURE 6.5.1 TOUGH Results for Test Case #5, Gas Injection. Gas Pressures in Horizontal Cross Section Through the Well at Time t =1.0×10^7 s

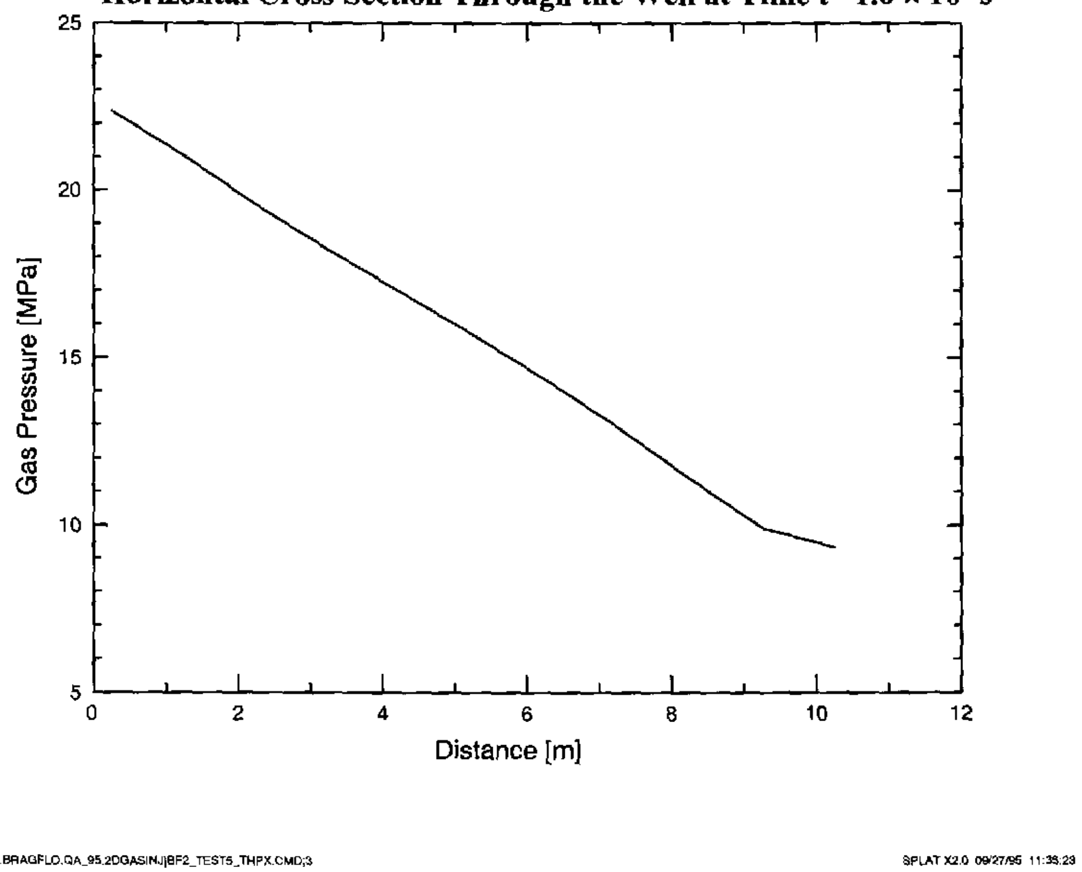


FIGURE 6.5.2 TOUGH Results for Test Case #5, Gas Injection. Gas Saturations in Horizontal Cross Section Through the Well at Time t =1.0 × 10⁷ s

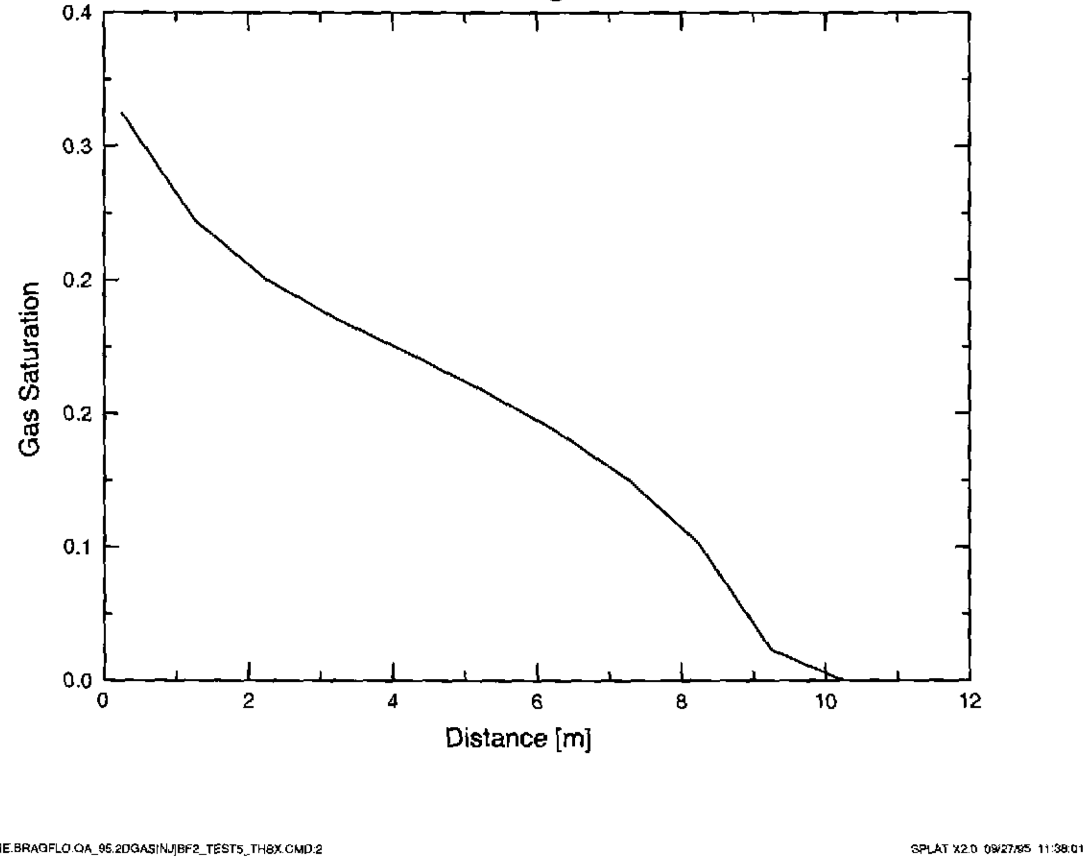


FIGURE 6.5.3 TOUGH Results for Test Case #5, Gas Injection. Gas Pressures in Vertical Cross Section Through the Well at Time t =1.0 × 10[7] s

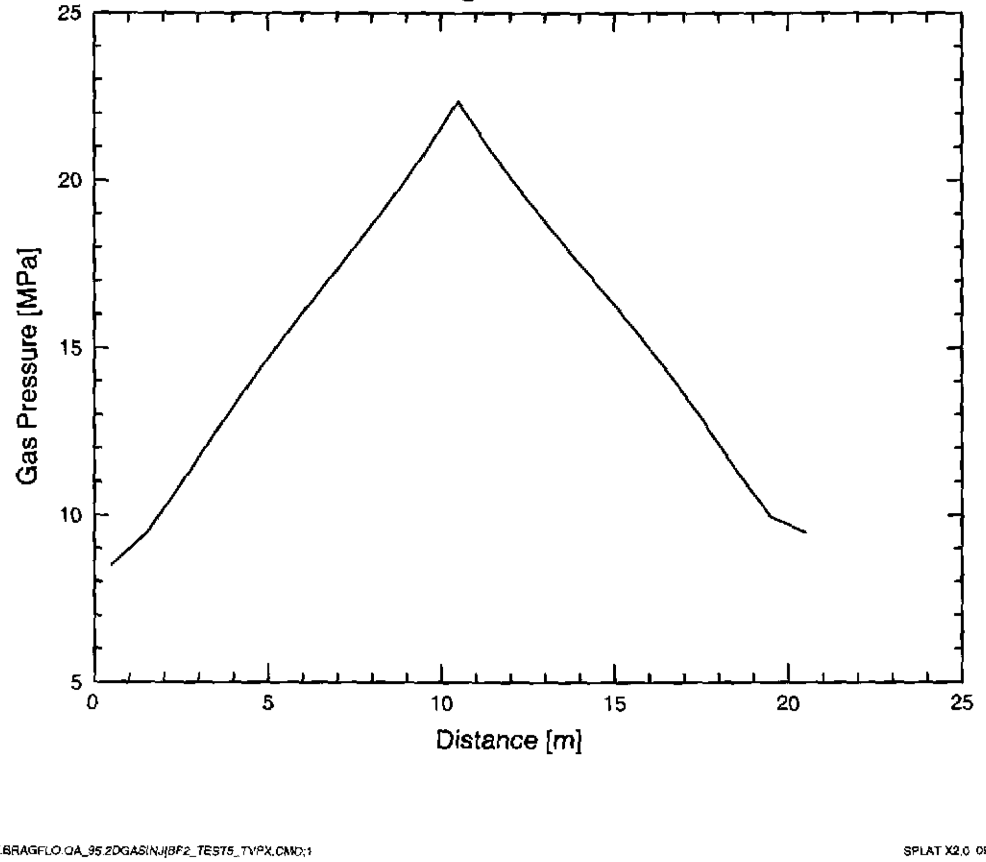


FIGURE 6.5.4 TOUGH Results for Test Case #5, Gas Injection. Gas Saturations in Vertical Cross Section Through the Well at Time t =1.0 × 10⁷ s

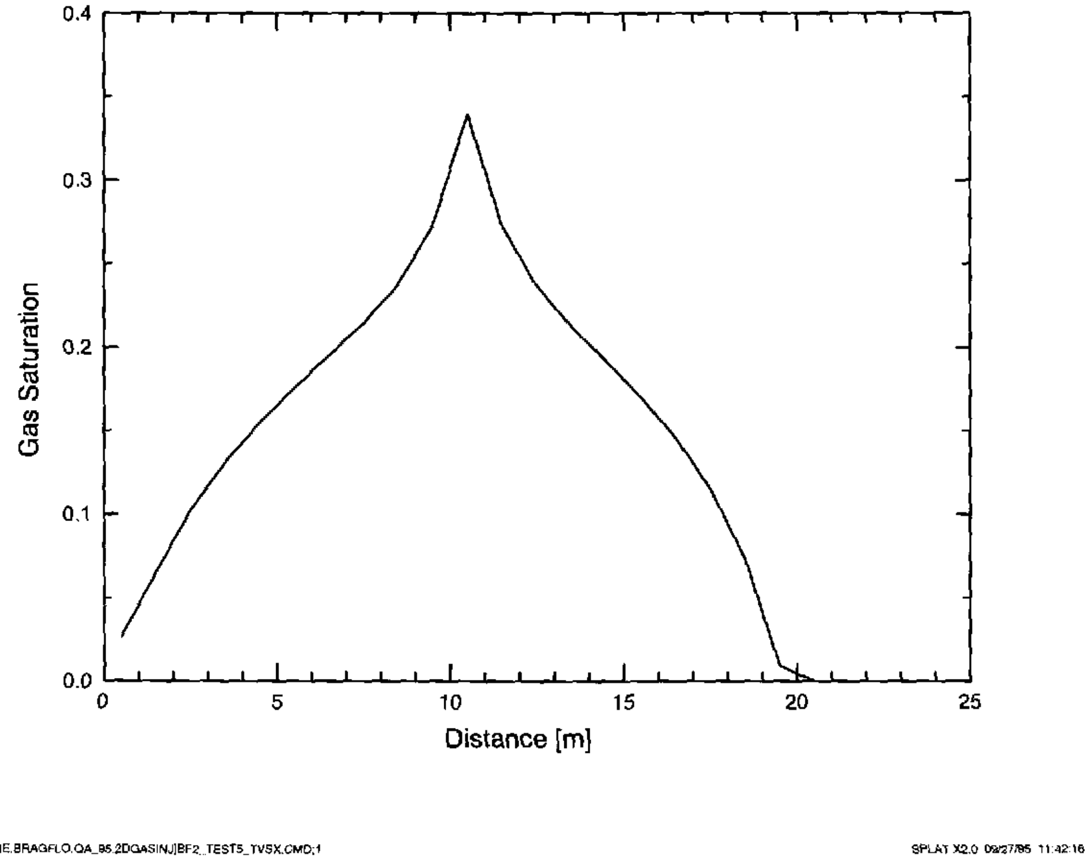


TABLE 6.5.1 Data Files Produced by BF2_TEST5_BFDAT.FOR, Test Case #5

BF2_QB0600_TEST5_BFHX.DAT	BRAGFLO pressure	*vs.* horizontal distance outward from well
BF2_QB0600_TEST5_BFHX.DAT	BRAGFLO saturation	*vs.* horizontal distance outward from well
BF2_QB0600_TEST5_BFVX.DAT	BRAGFLO pressure	*vs.* vertical distance from top downward through well
BF2_QB0600_TEST5_BFVX.DAT	BRAGFLO saturation	*vs.* vertical distance from top downward through well

TABLE 6.5.2 Data Files Produced for TOUGH Results Test Case #5

BF2_TEST5_THHX.DAT	TOUGH pressure	*vs.* horizontal distance outward from well
BF2_TEST5_THHX.DAT	TOUGH saturation	*vs.* horizontal distance outward from well
BF2_TEST5_THVX.DAT	TOUGH pressure	*vs.* vertical distance from top downward through well
BF2_TEST5_THVX.DAT	TOUGH saturation	*vs.* vertical distance from top downward through well

TABLE 6.5.3 Results from TOUGH Run on Test Case #5 BF2_TEST5_THHX.DAT

Distance, m	P_g, MPa	S_g
0.25	22.376	0.33961
1.25	21.040	0.27623
2.25	19.564	0.24034
3.25	18.231	0.21602
4.25	16.962	0.19553
5.25	15.697	0.17386
6.25	14.369	0.15003
7.25	12.940	0.12108
8.25	11.397	0.08178
9.25	9.924	0.01856
10.25	9.344	0.00000

BF2_TEST5_THVX.DAT

Distance, m	P_g, MPa	S_g
0.5	8.505	0.02636
1.5	9.450	0.06498
2.5	10.931	0.10241
3.5	12.490	0.13112
4.5	13.978	0.15464
5.5	15.374	0.17554
6.5	16.699	0.19523
7.5	18.005	0.21444
8.5	19.340	0.23769
9.5	20.764	0.27295
10.5	22.376	0.33961
11.5	20.800	0.27246
12.5	19.427	0.23662
13.5	18.156	0.21249
14.5	16.924	0.19182
15.5	15.676	0.16986
16.5	14.350	0.14557
17.5	12.915	0.11526
18.5	11.361	0.07344
19.5	9.967	0.00919
20.5	9.493	0.00000

6.5.2 Test Procedure

Test Case #5 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #5, .LOG files, BF2_QB0600_ES40_TEST5_RUN.LOG, BF2_QB0600_ES45_TEST5_RUN.LOG and BF2_QB0600_ES47_TEST5_RUN.LOG are included in Appendix A.5.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #5.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #5 for BRAGFLO 4.10, the acceptance criteria were comparisons with other independently developed software of similar purpose (i. e., TOUGH), together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST5_BFDAT.FOR was run to extract pressure and saturation data from the output file, BF2_TEST5.OUT, at time 1.0×10^7 s, the final printout time, and create data files, which were input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.5.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST5.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.5.2. This file is generated by modifying the input file, BF2_TEST5_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST5_INP.DIF (Figure 6.5.5). As seen in Figure 6.5.5, the differences between the input files consist of six sections that correspond to the new input information for BRAGFLO 6.0. The first and second sections contain flags to write the new output variables for BRAGFLO 6.0 to the ASCII and binary files (which are disabled with the values all set to 0). The third section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The fifth section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.5.5 Input File Differences for Test Case #5, BF2_QB0600_ES47_TEST5_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
   25    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   26    BINARY PRINT FLAGS
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
   25    BINARY PRINT FLAGS
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
   29    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30    HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
   28    HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
  104    GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  105    231*0.0
  106    DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
  102    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
  162    NBORERESET
  163    0
  164    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
```

```
  158     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
  170     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  171     1.000000E-02 1.000000E-03
  172     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  173     0
  174     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
  164     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
  197     0.0 0.0 F
  198     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  199     0.0 0.0
  200     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  201     0.0 0.0
  202     RATE COEFFICIENTS: RXH2S AND RXCO2
  203     0.0 0.0
  204     CHEMISTRY CUTOFF SATURATION: SOCMIN
  205     0.0
  206     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  207     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  208     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  209     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  210     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  211     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  212     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  213     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  214     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  215     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  216     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  217     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  218     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  219     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  220     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  221     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  222     WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
  223     0.0 F F 1000.
  224     CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
  187     0.0 0.0
  188     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  189     0.0 0.0
  190     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  191     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  192     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
  193     1.1730E+00 1.6540E+00 1.0000E+00
  194     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  195     7.6770E-01 0.0000E+00 1.0000E+00
  196     WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
  197     0.0 F 1000.
  198     CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
************

Number of difference sections found: 6
Number of difference records found: 37

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_TEST5_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.5.4 Test Results

Regression testing is used for Test Case #5 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST5.OUT, from Test Case #5 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST5.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST5_OUT.DIF, which is shown in Appendix A.5.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.5.6.

FIGURE 6.5.6 Summary of Difference Statistics for Test Case #5

```
Number of difference sections found: 17
Number of difference records found: 205

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 11 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST5.OUT and BF2_QB0600_ES45_TEST5.OUT, from Test Case #5 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST5.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST5_OUT.DIF and BF2_QB0600_ES45_TEST5_OUT.DIF (Appendix A.5.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #5 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #5 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.6 Test Case #6. Two-dimensional WIPP Preliminary Performance Assessment Calculation.

6.6.1 Test Objective

The purpose of this test is to exercise functional requirements that are specific to WIPP performance assessment calculations, but which were not tested in Test Cases 1-5. These include tests of:

1) gas generation resulting from corrosion and biodegradation reactions [Functional Requirement R.13];
2) creep closure of the repository [R.14];
3) fracturing of interbeds [R.9];
4) Klinkenberg effect [R.10];
5) relative permeability and capillary pressure models [R.8];
6) gas and brine density calculations [R.11 and R.12];
7) porosity calculations in materials other than waste [R.7 and R.9];
8) introduction of a borehole at the time of a human intrusion [R.7];
9) binary and ASCII output file generation [R.18];
10) reading an input file prepared by PREBRAG [R.25];
11) postprocessing using POSTBRAG [R.27].
12) reading an closure-surface input file prepared in SANTOS [R.26]

Functional Requirement R.17 (flow in heterogeneous materials) is not tested explicitly because this test case is too complex to be a valid test of that feature, but R.17 is utilized extensively in this test. In addition, this test case tests the basic Functional Requirements R.1 to R.3, and R.5 to R.6, which describe the problem being tested, R.11 and R.12, the equations of state for fluids, and R.15, the calculation of two-phase flow.

This test case is modification of a single realization from a Latin hypercube sampling used in a preliminary performance assessment calculation. It is expected to be similar to an actual compliance calculation using BRAGFLO in that all the features to be used in compliance calculations will be in effect. The test case simulates a human intrusion into the WIPP repository 1000 years after the repository is decommissioned (E1 scenario) and covers the 10,000-year compliance period. It is similar to Vector 7 of Test Case #7 except that Test Case #6 uses higher corrosion and biodegradation rates in order to generate sufficient pressures for fracturing to occur.

6.6.2 Test Procedure

Test Case #6 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #6,

.LOG files, BF2_QB0600_ES40_TEST6_RUN.LOG, BF2_QB0600_ES45_TEST6_RUN.LOG and BF2_QB0600_ES47_TEST6_RUN.LOG are included in Appendix A.6.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #6.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by independent calculations and manual inspection of the output (Stein; Zelinski, 2004b). The binary output file was post-processed using POSTBRAG, with an input .CDB file, BF2_TEST6_ALGEBRA.CDB, to produce an output .CDB file, BF2_QB0600_TEST6.CDB, which can be examined using GROPE or SPLAT.

6.6.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST6.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.6.2. This file is generated by modifying the input file, BF2_TEST6_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST6_INP.DIF (Figure 6.6.1). As seen in Figure 6.6.1, the differences between the input files consist of thirteen sections that correspond to the new input information for BRAGFLO 6.0. The first and second sections contain flags to write the new output variables for BRAGFLO 6.0 to the ASCII and binary files. The order of the flags changed in BRAGFLO

6.0, but the input file flags are set to output the same variables as before. The third section contains the input of the initial MgO concentration (with the values all set to zero). Sections 4 to 11 shows changes made for the waste area reset model. This model is improved to enable more materials to be reset, instead of being limited to the waste materials (i.e. the shaft, open drifts, etc.) Material #10 CAVITY_4 had two different reset saturations which necessitated the introduction of a new material labeled #39 CAVITY_5 to represent both saturations. Material #39 is given the same properties as #10 (which it replaced in three cells), except for the reset saturation. Section 4 shows the replacement of material #10 with #39. Sections 5, 9, 10 and 11 show the added properties for material #39. Sections 6, 7, and 8 show the reset parameters added for the model change. The values are set to give the same conditions as are given before for the testcase. Section 8 also shows the input for the material change reset model (with the model disabled by the 0 in the input). Section 11 also contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). Section 12 contains the input parameters for the chemistry models, which are set to the previous testcase values, except for RKCOR and RKBIO, which are divided by the initial concentration of Fe and cellulose, respectively, to test the intrinsic rate flag. The last section contains the inputs for the closure model, which contains the same values as before, but in a different input structure.

FIGURE 6.6.1 Input File Differences for Test Case #6, BF2_QB0600_ES47_TEST6_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
   29     1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1
   30     1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
   29     1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 0 0
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
   35     1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1
   36     1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
   35     1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 0 0
   36     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1123     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1124     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1125     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1126     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1127     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1128     0.000000E+00
 1129     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1130     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1131     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1132     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1133     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1134     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1135     0.000000E+00
 1136     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1137     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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 1290     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1291     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1292     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1293     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1294     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1295     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1296     0.000000E+00
 1297     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1298     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1299     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1300     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1301     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1302     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1303     0.000000E+00
 1304     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1305     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1306     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1307     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1308     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1309     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1310     0.000000E+00
 1311     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1121     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1394     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1395     11 11 11 11 11
 1396     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1397     11 11 11 11 11
 1398     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1399     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1204     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1205     11 11 11 11 11
 1206     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1207     11 11 11 11 11
 1208     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1209     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1610     39 CAVITY_5
 1611     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1420     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1619     5
 1620     MATRESET
 1621     7 8 9 10 39
 1622     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1428     4
 1429     MATRESET
 1430     7 8 9 10
 1431     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1629     1.013250E+05
 1630     1.013250E+05
 1631     1.013250E+05
 1632     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1438     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
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 1635     0.000000E+00
 1636     0.250000E+00
 1637     0.200000E+00
 1638     PRESDRZ
 1640     NBORERESET
 1641     0
 1642     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1441     PRESDRZ
 1443     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1681     39 7.000000E-01 0.000000E+00 0.000000E+00
 1682     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1482     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1721     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1722     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1521     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1761     39 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1762     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1763     1.000000E-02 1.000000E-03
 1764     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1765     0
 1766     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1560     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1819     RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
 1820     1.9045188518798551E-10 2.7932414729320935E-09 T
 1821     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1822     1.000E-03 2.0000E-01
 1823     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1824     0.0000E+00 0.0000E+00
 1825     RATE COEFFICIENTS: RXH2S AND RXCO2
 1826     1.1100E+00 0.0000E+00
 1827     1.1100E+00 0.0000E+00
 1828     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1829     0.0000E+00
 1830     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1831     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1832     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1833     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1834     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1835     1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1836     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1837     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1838     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1839     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1840     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1841     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1842     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1843     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1844     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1845     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1846     WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
 1847     0.0000E+00 T F 1.0000E+03
 1848     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1613     RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 1614     3.000E-08 1.5000E-07
```

```
 1615     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1616     1.000E-03 2.0000E-01
 1617     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1618     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1619     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1620     1.3081E+00 1.3838E+00 1.0000E+00
 1621     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1622     1.1100E+00 0.0000E+00 1.0000E+00
 1623     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1624     0.0000E+00 T 1.0000E+03
 1625     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
 1852     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1853     4 1.4800E+07 3.1557E+12 1 F
 1854     MODPERM PARAMETERS
 1855     5.5847E-12 0.0000E+00
 1856     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
 1629     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1630     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1631     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 13
Number of difference records found: 252

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_TEST6_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.6.4 Test Results

Regression testing is used for Test Case #6 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST6.OUT, from Test Case #6 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST6.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST6_OUT.DIF, which is shown in Appendix A.6.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.6.2.

FIGURE 6.6.2 Summary of Difference Statistics for Test Case #6

```
Number of difference sections found: 29
Number of difference records found: 447

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 17 sections;
- Differences due to new input: 12 sections.

The ASCII output files, BF2_QB0600_ES40_TEST6.OUT and BF2_QB0600_ES45_TEST6.OUT, from Test Case #6 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST6.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST6_OUT.DIF and BF2_QB0600_ES45_TEST6_OUT.DIF (Appendix A.6.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #6 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #6 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.7 Test Case #7. FEP baseline calculations, E1 scenario. (Total of 20 BRAGFLO runs)

6.7.1 Test Objective

The purpose of this test is to verify that BRAGFLO can simulate the performance of the WIPP site using wide ranges of the parameters that will likely be varied in a compliance calculation. Gas pressures, for example, should be positive everywhere and bounded within reasonable limits (say, 30 MPa). In the waste and other excavated regions, the pressures should start at atmospheric and increase over time, generally ending up, at 10,000 years between 6 MPa and 15 MPa (approximately, between hydrostatic and lithostatic pressures).

All of the features, that are expected to be used in compliance calculations, will be exercised in each run. Thus, all Functional Requirements except R.16 (well models), R.17 (flow through heterogeneous and homogenous media), R.19 (an error check), and R.20-R.24 (new for BRAGFLO 6.0) are tested, with the objective being simply to show, when all features are activated, that the results are reasonable. This is in contrast to other test cases in which certain output variables are examined in detail. The test consists of 20 separate BRAGFLO runs, a complete set from a Latin hypercube sampling (LHS). Each run simulates the behavior of the WIPP site over a 10,000-year period, with a human intrusion occurring at 1000 years, the E1 scenario.

6.7.2 Test Procedure

Test Case #7 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #7, .LOG files, BF2_QB0600_ES40_TEST7_Vnnn_RUN.LOG (where nnn = 001 to 020, 20 files), BF2_QB0600_ES45_TEST7_Vnnn_RUN.LOG (20 files) and BF2_QB0600_ES47_TEST7_Vnnn_RUN.LOG (20 files) are included in Appendix A.7.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #7.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by manual inspection of the output (Stein; Zelinski, 2004b).

6.7.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first type of input file, BF2_QB0600_TEST7_Vnnn.INP (20 files), are ASCII control files generated by the PREBRAG software module and are shown in Appendix A.7.2. These files are generated by modifying the input file, BF2_TEST7_Rnnn _QA0500.INP (where nnn = 001 to 020, 20 files), which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST7_Vnnn_INP.DIF (20 files, Appendix A.7.3). A summary of the differences is listed in Figure 6.7.1. As seen in Figure 6.7.1, each of the 20 files contained twelve sections of differences that correspond to the new input information for BRAGFLO 6.0. The first section contains flags to write the new output variables for BRAGFLO 6.0 to the ASCII and binary files. The order of the flags changed in BRAGFLO 6.0, but the input file flags are set to output the same variables as before. The second section contains the input of the initial MgO concentration (with the values all set to zero). Sections 3 to 10 shows changes made for the waste area reset model. This model is improved to enable more materials to be reset, instead of being limited to the waste materials (i.e. the shaft, open drifts, etc.) Material #10 CAVITY_4 had two different reset saturations which necessitated the introduction of a new material labeled #39 CAVITY_5 to represent both saturations. Material #39 is given the same properties as #10 (which it replaced in three cells), except for the reset saturation. Section 3 shows the replacement of material #10 with #39. Sections 4, 8, 9 and 10 show the added properties for material #39. Sections 5, 6, and 7 show the reset parameters added for the model change. The values are set to give the same conditions as are given before for the testcase. Section 7 also shows the input for the material change reset model (with the model disabled by the 0 in the input). Section 10 also contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). Section 11 contains the input parameters for the chemistry models, which are set to the previous testcase values. The last section contains the inputs for the closure model, which contains the same values as before, but in a different input structure.

FIGURE 6.7.1 Input File Differences for Test Case #7, BF2_QB0600_ES47_TEST7_Vnnn_INP.DIF (where nnn = 1 to 20)

BF2_QB0600_ES47_TEST7_V001_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
```

BF2_QB0600_ES47_TEST7_V002_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
```

BF2_QB0600_ES47_TEST7_V003_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
```

BF2_QB0600_ES47_TEST7_V004_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
```

BF2_QB0600_ES47_TEST7_V005_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
```

BF2_QB0600_ES47_TEST7_V006_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
```

BF2_QB0600_ES47_TEST7_V007_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
```

BF2_QB0600_ES47_TEST7_V008_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
```

BF2_QB0600_ES47_TEST7_V009_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
```

BF2_QB0600_ES47_TEST7_V010_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
```

BF2_QB0600_ES47_TEST7_V011_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
```

BF2_QB0600_ES47_TEST7_V012_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
```

BF2_QB0600_ES47_TEST7_V013_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
```

BF2_QB0600_ES47_TEST7_V014_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
```

BF2_QB0600_ES47_TEST7_V015_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
```

BF2_QB0600_ES47_TEST7_V016_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
```

BF2_QB0600_ES47_TEST7_V017_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
```

BF2_QB0600_ES47_TEST7_V018_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
```

BF2_QB0600_ES47_TEST7_V019_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
```

BF2_QB0600_ES47_TEST7_V020_INP.DIF

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.7.4 Test Results

Regression testing is used for Test Case #7 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output files, BF2_QB0600_ES47_TEST7_Vnnn.OUT (20 files), from Test Case #7 of BRAGFLO 6.0 run on the ES47 are compared to the output file, BF2_VMS82_V500_ES47_TEST7_Rnnn.OUT (20 files, Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST7_Vnnn.DIF (20 files), with differences due to reporting of new input information indicated in bold italics (Appendix A.7.4). A summary of differences is listed in Figure 6.7.2.

FIGURE 6.7.2 Summary of Difference Statistics for Test Case #7

BF2_QB0600_ES47_TEST7_V001.DIF

```
Number of difference sections found: 23
Number of difference records found: 373

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V002.DIF

```
Number of difference sections found: 23
Number of difference records found: 355

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V003.DIF

```
Number of difference sections found: 23
Number of difference records found: 335

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V004.DIF

```
Number of difference sections found: 23
Number of difference records found: 347

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V005.DIF

```
Number of difference sections found: 23
Number of difference records found: 425

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V006.DIF

```
Number of difference sections found: 23
Number of difference records found: 389

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V007.DIF

```
Number of difference sections found: 23
Number of difference records found: 357

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V008.DIF

```
Number of difference sections found: 23
Number of difference records found: 383

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V009.DIF

```
Number of difference sections found: 23
Number of difference records found: 807
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V010.DIF

```
Number of difference sections found: 23
Number of difference records found: 347

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V011.DIF

```
Number of difference sections found: 23
Number of difference records found: 419

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V012.DIF

```
Number of difference sections found: 23
Number of difference records found: 395

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V013.DIF

```
Number of difference sections found: 23
Number of difference records found: 383

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V014.DIF

```
Number of difference sections found: 23
Number of difference records found: 411

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V015.DIF

```
Number of difference sections found: 23
Number of difference records found: 427

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;
- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V016.DIF

```
Number of difference sections found: 23
Number of difference records found: 367

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;

- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V017.DIF

```
Number of difference sections found: 23
Number of difference records found: 373

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;

- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V018.DIF

```
Number of difference sections found: 23
Number of difference records found: 337

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;

- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V019.DIF

```
Number of difference sections found: 23
Number of difference records found: 419

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;

- Differences due to new input: 12 sections.

BF2_QB0600_ES47_TEST7_V020.DIF

```
Number of difference sections found: 23
Number of difference records found: 367
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 11 sections;

- Differences due to new input: 12 sections.

The ASCII output files, BF2_QB0600_ES40_TEST7_Vnnn.OUT (20 files) and BF2_QB0600_ES45_TEST7_Vnnn.OUT (20 files), from Test Case #7 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output files, BF2_QB0600_ES47_TEST7_Vnnn.OUT (20 files), using the VMS DIFFERENCE command, with the results are stored in BF2_QB0600_ES40_TEST7_Vnnn.DIF (20 files, Appendix A.7.5) and BF2_QB0600_ES45_TEST7_Vnnn.DIF (20 files, Appendix A.7.5), respectively. Examination of these files shows that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #7 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #7 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.8 Test Case #8. Well Production at Specified Bottom Hole Pressure

6.8.1 Test Objective

The purpose of this test is to verify that BRAGFLO can simulate the performance of production wells in which the bottom hole pressure is specified, in particular when two phases are present.

This type of well model is often used in BRAGFLO to maintain a constant pressure at some location. Dirichlet boundary conditions can achieve the same result somewhat more rigorously. However, the well model has the advantage that conditions can be changed during the course of a run, whereas the Dirichlet conditions are fixed for the entire run. In addition, the outflows, or production from the well, is calculated and can be output, something not done when the Dirichlet conditions are used.

The well model in BRAGFLO treats well deliverability by the inflow performance equation:

$$q_l = I\left(\frac{k_{rl}}{\mu_l}\right)\left(p_l - p_{wf}\right) \tag{6.8.1}$$

where

q = volumetric flow rate [m^3/s],
I = well productivity index [m^3],
k_r = relative permeability [-],
μ = viscosity [Pa·s],
p = pressure [Pa],

and subscripts

l = phase (brine or gas),
wf = flowing bottom hole.

To test the BRAGFLO treatment of well production at specified bottom hole pressure, a test was designed and the BRAGFLO results are compared with the results obtained from the code TOUGH28W, which is the WIPP version of the TOUGH code (Pruess, 1987).

The test problem considers a horizontal one-dimensional reservoir with two grid blocks. Each grid block is a 10 *m* cube. Both grid blocks are initially at pressure 10 MPa and water saturation 0.5. Fluids consist of pure water and hydrogen gas. A single well with productivity index of 1.0×10^{-12} m^3 is completed in the first grid block at initial time and is produced for 1000 s at a fixed flowing bottom hole pressure of 1.0 MPa. The well will produce both water and gas with declining rates as the reservoir is depleted and the pressure decreases. Formation properties are:

permeability	$= 1.0 \times 10^{-13}$ m^2,
porosity	= 0.5,
rock compressibility	= 0.0 Pa^{-1},
capillary pressure	= 0.0 Pa.

Relative permeability's are given by the Brooks-Corey model (KRP = 4) with pore distribution parameter $\lambda = 0.7$ and residual water and gas saturations of zero.

Results from TOUGH28W are shown in Figures 6.8.1 to 6.8.3. Both water and gas are produced from the well grid block (grid block #1). As pressure is depleted from the well block, supporting flow from the second grid block occurs. Both grid blocks become depleted, but the well block maintains a pressure below the adjacent grid block, as shown in Figure 6.8.1. As the pressure declines, both the water and gas production rates (Figures 6.8.2 and 6.8.3, respectively) decline. Tabulated results from TOUGH28W are shown in Table 6.8.1.

Some differences exist between BRAGFLO and TOUGH28W that cannot be compensated for with input data. Fluid properties are represented differently. BRAGFLO uses a constant brine compressibility to compute brine density whereas TOUGH28W uses an equation of state for brine density. It was estimated from TOUGH28W brine density data that the equivalent brine compressibility to use in BRAGFLO was 4.45×10^{-10} Pa^{-1}. Fluid viscosity in TOUGH28W is pressure-dependent, whereas BRAGFLO uses constant water and gas viscosity, 8.5×10^{-2} Pa·s and 8.92×10^{-6} Pa·s, respectively. These values were chosen as representative of the values used in TOUGH28W throughout the pressure range encountered. The two codes also implement a different technique for averaging interblock flows, which will contribute to differences in the calculated fluid flows. This test case tests Functional Requirement R.16 and R.18.

FIGURE 6.8.1 Results from TOUGH28W Run on Test Case #8. Reservoir Pressure Response for Pressure-Specified Deliverability

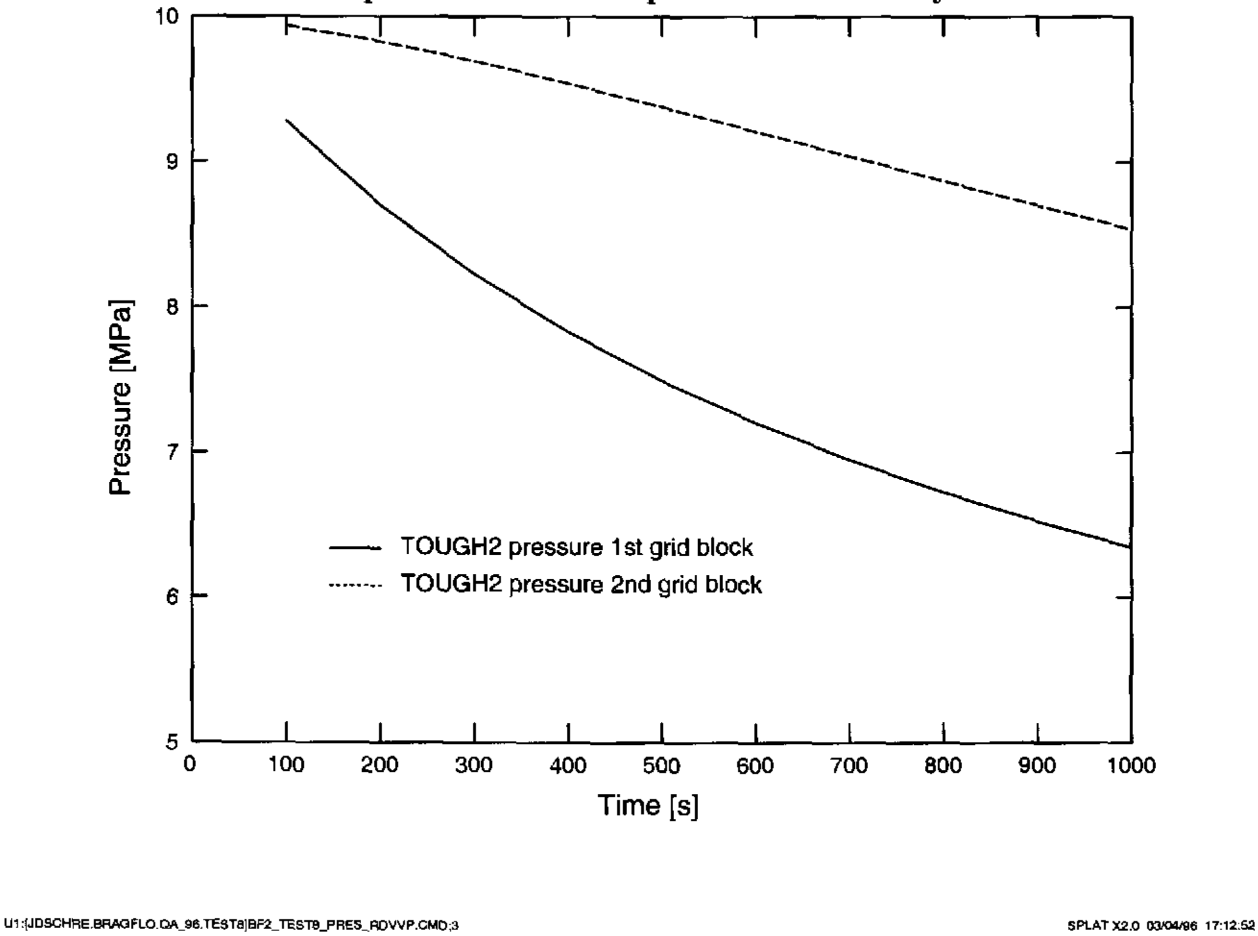


FIGURE 6.8.2 Results from TOUGH28W Run on Test Case #8. Brine Production Rate for Pressure-Specified Deliverability

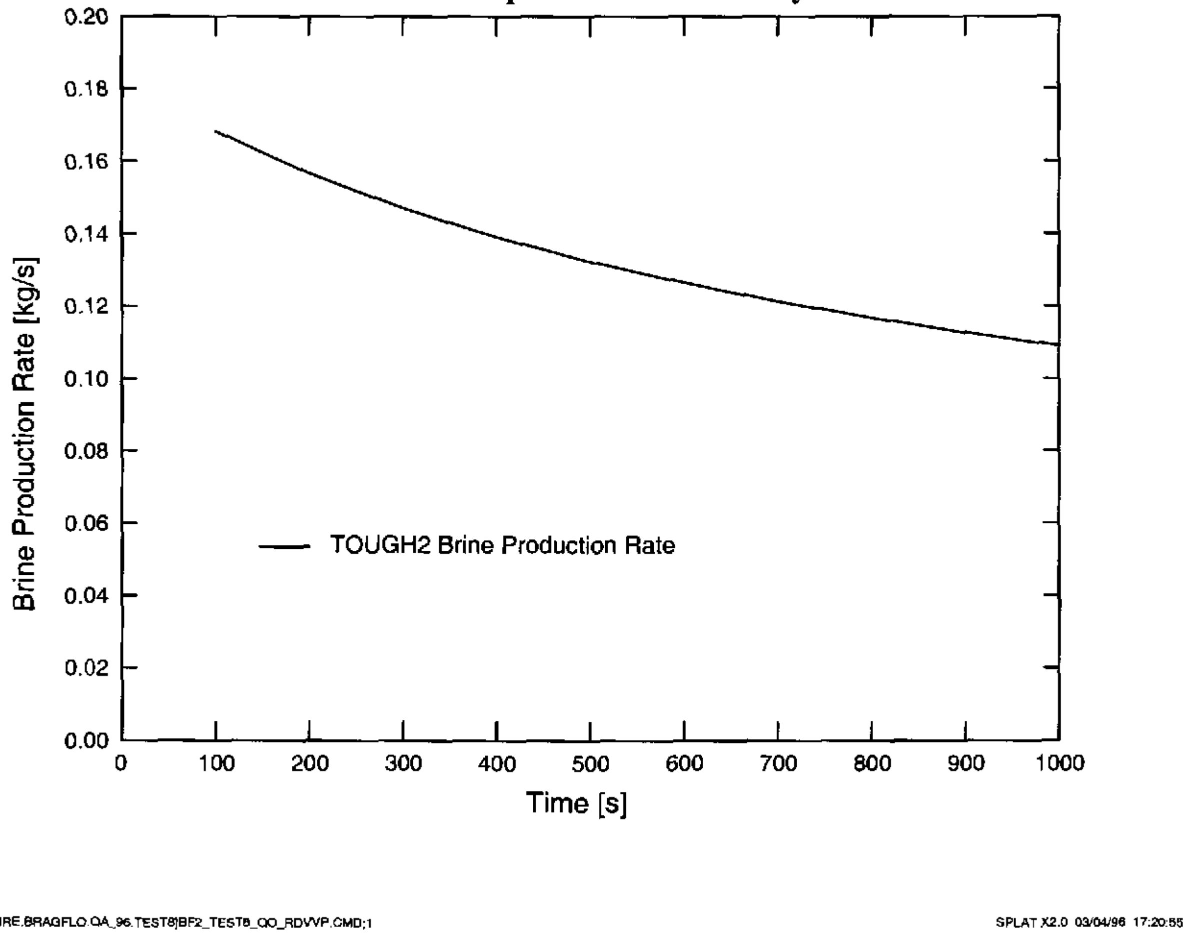


FIGURE 6.8.3 Results from TOUGH28W Run on Test Case #8. Gas Production Rate for Pressure-Specified Deliverability

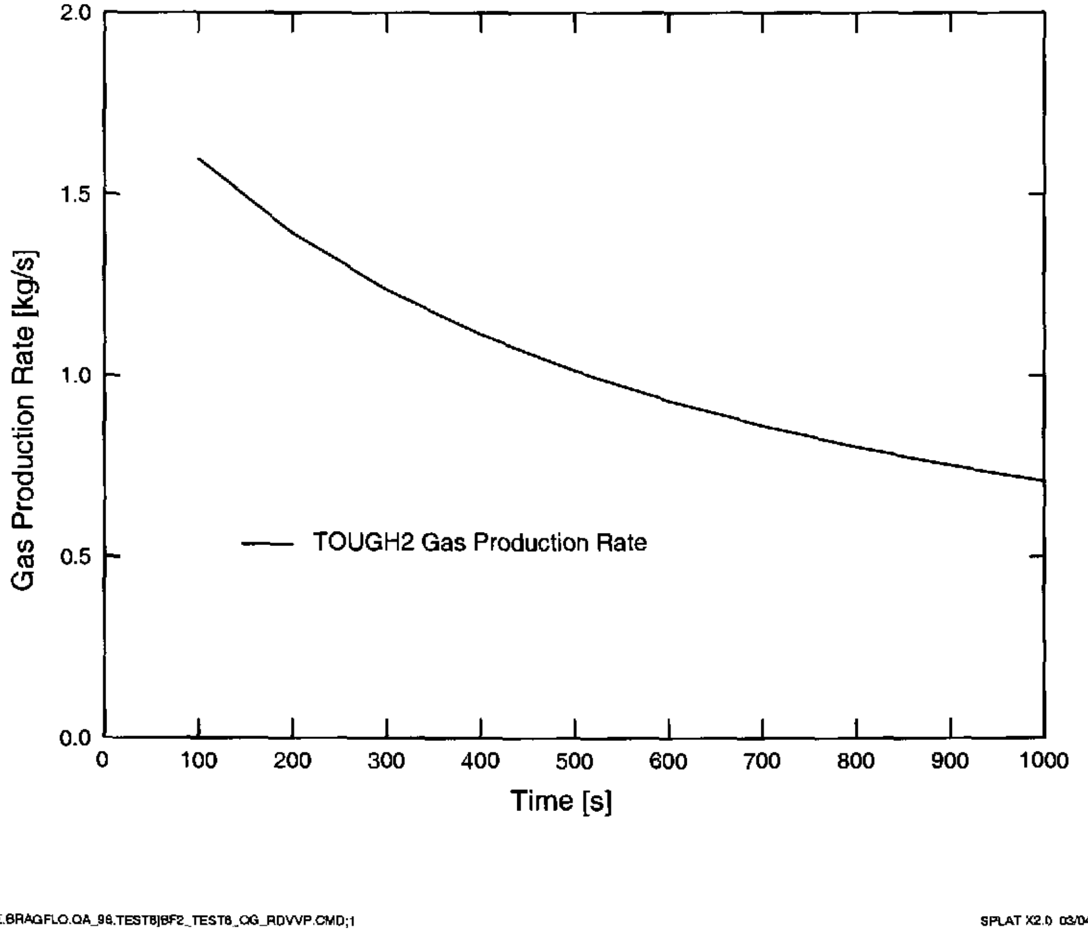


TABLE 6.8.1 Results from TOUGH28W Run on Test Case #8.
BF2_TEST8_TOUGH.DAT

Time yr	Pressure block 1 MPa	Pressure block 2 MPa	Brine Production Rate kg/s	Gas Production Rate kg/s
1000	9.279	9.936	0.1682	1.597
2000	8.700	9.829	0.1566	1.393
3000	8.226	9.694	0.1471	1.237
4000	7.831	9.542	0.1391	1.114
5000	7.494	9.380	0.1323	1.014
6000	7.205	9.211	0.1265	0.9314
7000	6.951	9.040	0.1213	0.8623
8000	6.727	8.869	0.1168	0.8034
9000	6.526	8.700	0.1127	0.7523
10000	6.345	8.533	0.1091	0.7076

6.8.2 Test Procedure

Test Case #8 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #8, .LOG files, BF2_QB0600_ES40_TEST8_RUN.LOG, BF2_QB0600_ES45_TEST8_RUN.LOG and BF2_QB0600_ES47_TEST8_RUN.LOG are included in Appendix A.8.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #8.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #8 for BRAGFLO 4.10, the acceptance criteria were comparisons with other independently developed software of similar purpose (i. e., TOUGH), together with manual inspection of the output from the test case (Schreiber 1997a). The code BF2_TEST8_POST.FOR was run to extract pressures, saturations, and time-average well flow rates of water and gas from the ASCII output file, BF2_TEST8.OUT, and places this information into files used by the plotting package, SPLAT. The resulting plots superimposed BRAGFLO results and the independent results. Numerical comparisons were also performed.

6.8.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST8.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.8.2. This file is generated by modifying the input file, BF2_TEST8_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST8_INP.DIF (Figure 6.8.4). As seen in Figure 6.8.4, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.8.4 Input File Differences for Test Case #8, BF2_QB0600_ES47_TEST8_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
   69     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   70     2*0.0
   71     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500.INP;1
   69     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
  127     NBORERESET
  128     0
  129     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500.INP;1
  125     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
  135     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  136     1.000000E-02 1.000000E-03
  137     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  138     0
  139     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500.INP;1
  131     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
  162     0.0 0.0 F
  163     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  164     0.0 0.0
  165     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  166     0.0 0.0
  167     RATE COEFFICIENTS: RXH2S AND RXCO2
  168     0.0 0.0
  169     CHEMISTRY CUTOFF SATURATION: SOCMIN
  170     0.0
  171     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  172     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  173     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  174     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  175     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  176     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  177     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  178     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  179     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  180     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  181     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  182     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  183     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  184     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  185     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  186     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  187     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  188     0.0 F F 50.
  189     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500.INP;1
  154     0.0 0.0
  155     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  156     0.0 0.0
  157     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  158     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  159     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
```

```
  160     1.1730E+00 1.6540E+00 1.0000E+00
  161     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  162     7.6770E-01 0.0000E+00 1.0000E+00
  163     WICKING SATN, HUMID SMOOTHING, ALPHARXN
  164     0.0 F 50.
  165     CREEP CLOSURE?
************

Number of difference sections found: 4
Number of difference records found: 35

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_TEST8_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.8.4 Test Results

Regression testing is used for Test Case #8 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST8.OUT, from Test Case #8 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST8.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST8_OUT.DIF, which is shown in Appendix A.8.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.8.5.

FIGURE 6.8.5 Summary of Difference Statistics for Test Case #8

```
Number of difference sections found: 34
Number of difference records found: 244

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_OUT.DIF;1-
     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1-
     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 28 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST8.OUT and BF2_QB0600_ES45_TEST8.OUT, from Test Case #8 of BRAGFLO 6.0 run on the ES40 and

ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST8.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST8_OUT.DIF and BF2_QB0600_ES45_TEST8_OUT.DIF (Appendix A.8.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #8 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #8 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.9 Test Case #9. Heterogeneous Reservoir Conditions

6.9.1 Test Objective

The purpose of this test is to verify that BRAGFLO can simulate fluid flow in a non-uniform formation, in particular, where the permeability is non-uniform. Test Case #9 considers the following one-dimensional steady-state single phase flow problem. A 1-D reservoir is discretized with 15 uniform grid blocks of 1 m dimension in each coordinate direction. An injection well is located in the first (left-most) grid block with water injection rate of 0.1 kg/s. In the 15th (right-most) grid block, a well produces water at a rate of 0.1 kg/s. At initial time, the water pressure within the reservoir is a uniform 1.0 MPa. When steady-state flow is achieved in the reservoir, the velocity must satisfy

$$v_w = -\left(\frac{k}{\mu_w}\right)\frac{dp}{dx} = \frac{q_{inj}}{\rho_w A} \tag{6.9.1}$$

where

v_w	= Darcy velocity [m/s],
k	= formation permeability [m^2],
μ_w	= water viscosity, 0.001 [Pa·s],
dp/dx	= pressure gradient in x-direction [Pa/m],
q_{inj}	= water injection rate, 0.1 [kg/s],
ρ_w	= water density, 1000 [kg/m^3],
A	= area normal to flow, 1.0 [m^2].

First consider the case with uniform formation property:

$$\mathrm{k} = 1.0 \times 10^{-11}\ \mathrm{m}^2 \tag{6.9.2}$$

The pressure gradient is then determined by

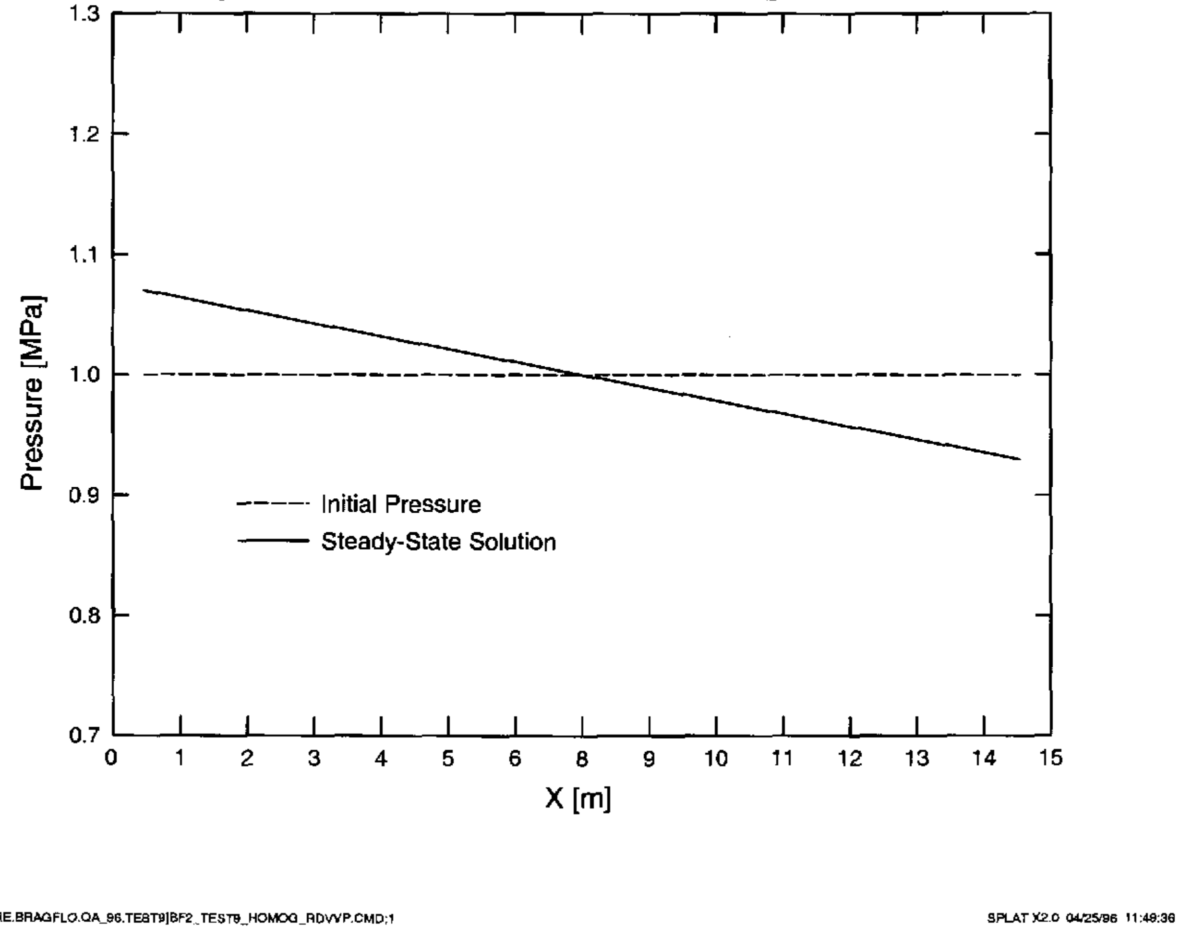
$$\frac{dp}{dx} = -\left(\frac{\mu_w}{k}\right)\frac{q_{inj}}{\rho_w A} \tag{6.9.3}$$

For the above parameter values,

$$\frac{dp}{dx} = -1.0 \times 10^4\ \text{Pa/m} \tag{6.9.4}$$

If the reservoir is allowed to equilibrate over time to a steady state condition, then the pressure at the center of the reservoir (center of grid block 8) will maintain 1.0 MPa pressure, and the pressure gradient within the reservoir will assume the value -1.0×10^4 Pa/m. When BRAGFLO is run to steady state condition (1.0×10^5 s), the results should be the linear pressure profile shown in Figure 6.9.1.

FIGURE 6.9.1 Steady-State Solution for Test Case #9, Homogeneous Reservoir Conditions



Now introduce formation heterogeneity. Within the grid, the permeability is assigned as:

$$\begin{aligned} k &= 0.25 \times 10^{-11}\ \mathrm{m}^2, \text{ for } 0 < x < 5, \\ k &= 1.00 \times 10^{-11}\ \mathrm{m}^2, \text{ for } 5 < x < 10, \\ k &= 0.25 \times 10^{-11}\ \mathrm{m}^2, \text{ for } 10 < x < 15. \end{aligned} \tag{6.9.5}$$

This choice of permeability distribution maintains symmetry about the center of the reservoir. The resulting pressure gradients are:

$$\begin{aligned} dp/dx &= -4.0 \times 10^4 \text{ Pa/m}, \text{ for } 0 < x < 5, \\ dp/dx &= -1.0 \times 10^4 \text{ Pa/m}, \text{ for } 5 < x < 10, \\ dp/dx &= -4.0 \times 10^4 \text{ Pa/m}, \text{ for } 10 < x < 15. \end{aligned} \tag{6.9.6}$$

The steady state solution will maintain 1.0 MPa pressure at the grid center and will honor the above pressure gradients, as shown in Figure 6.9.2. The exact solutions for the homogeneous and heterogeneous problems are tabulated in Table 6.9.1.

This test case tests Functional Requirement R.17 and R.18.

FIGURE 6.9.2 Steady-State Solution for Test Case #9, Heterogeneous Reservoir Conditions

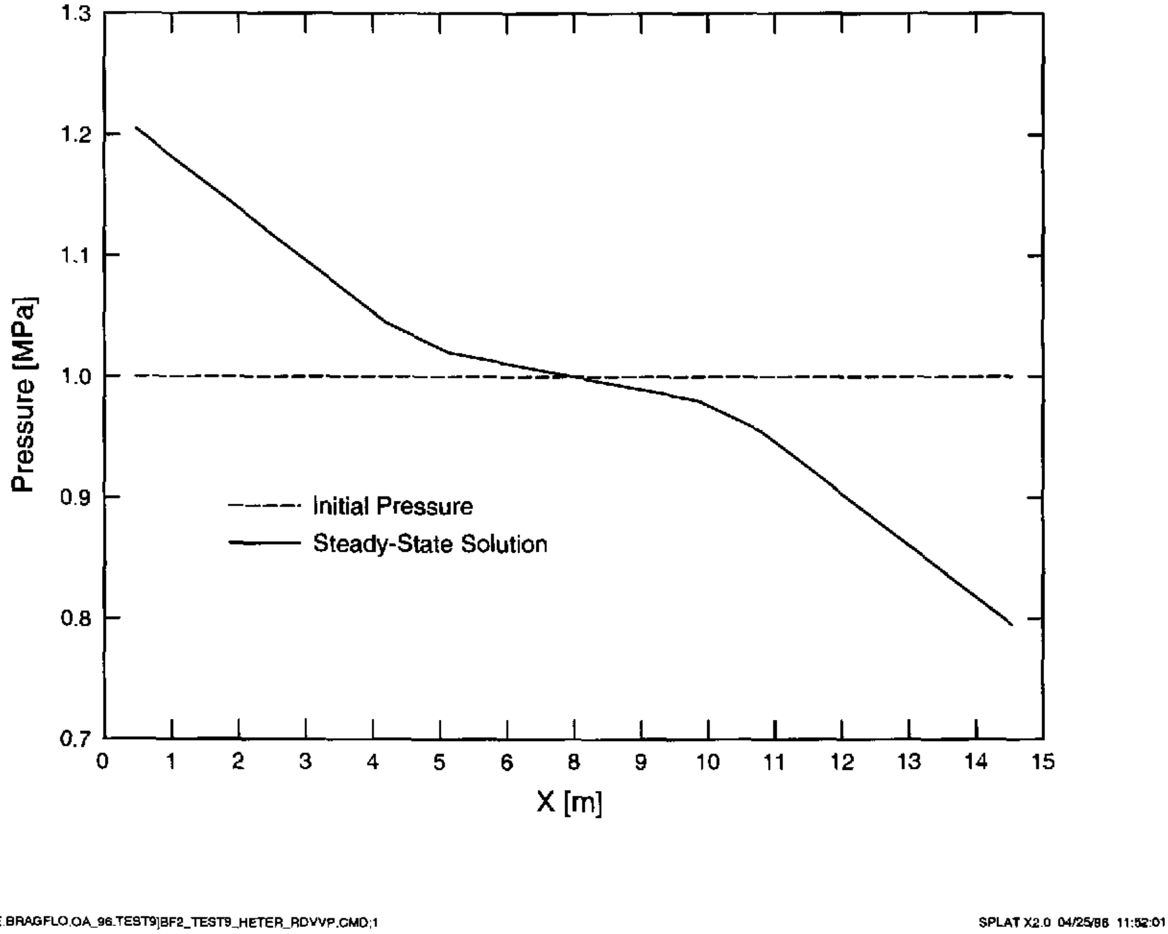


TABLE 6.9.1 Analytical Steady-State Solutions for Test Case #9.

Homogeneous Reservoir Conditions

x, m	Steady-State Analytical Solution Pressure, MPa	Initial Pressure, MPa
0.5	1.070000	1.000000
1.5	1.060000	1.000000
2.5	1.050000	1.000000
3.5	1.040000	1.000000
4.5	1.030000	1.000000
5.5	1.020000	1.000000
6.5	1.010000	1.000000
7.5	1.000000	1.000000
8.5	0.990000	1.000000
9.5	0.980000	1.000000
10.5	0.970000	1.000000
11.5	0.960000	1.000000
12.5	0.950000	1.000000
13.5	0.940000	1.000000
14.5	0.930000	1.000000

Heterogeneous Reservoir Conditions

x, m	Steady-State Analytical Solution Pressure, MPa	Initial Pressure, MPa
0.5	1.205000	1.000000
1.5	1.165000	1.000000
2.5	1.125000	1.000000
3.5	1.085000	1.000000
4.5	1.045000	1.000000
5.5	1.020000	1.000000
6.5	1.010000	1.000000
7.5	1.000000	1.000000
8.5	0.990000	1.000000
9.5	0.980000	1.000000
10.5	0.955000	1.000000
11.5	0.915000	1.000000
12.5	0.875000	1.000000
13.5	0.835000	1.000000
14.5	0.795000	1.000000

6.9.2 Test Procedure

Test Case #9 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #9, .LOG files, BF2_QB0600_ES40_TEST9_HETER_RUN.LOG, BF2_QB0600_ES40_TEST9_HOMOG_RUN.LOG, BF2_QB0600_ES45_TEST9_HETER_RUN.LOG, BF2_QB0600_ES45_TEST9_HOMOG_RUN.LOG, BF2_QB0600_ES47_TEST9_HETER_RUN.LOG, and BF2_QB0600_ES47_TEST9_HOMOG_RUN.LOG are included in Appendix A.9.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #9.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #9 for BRAGFLO 4.10, the acceptance criteria were comparisons with analytical solutions of the output from the test case (Schreiber 1997a). The codes BF2_TEST9_HOMOG_POST.FOR and BF2_TEST9_HETER_POST.FOR were run to to extract water (brine) pressures and place this information into files used by the plotting package, SPLAT. The resulting plots superimposed BRAGFLO results and the analytical solutions. Numerical comparisons were also performed.

6.9.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first type of input file, BF2_QB0600_TEST9_HOMOG.INP and BF2_QB0600_TEST9_HETER.INP, are ASCII control files generated by the PREBRAG software module and are shown in Appendix A.9.2. These files are generated by modifying the input files, BF2_TEST9_HOMOG_QA0500.INP and BF2_TEST9_HETER_QA0500.INP, which were used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these files and the differences are recorded in the ASCII files, BF2_QB0600_ES47_TEST9_HETER_INP.DIF and BF2_QB0600_ES47_TEST9_HOMOG_INP.DIF (Figure 6.9.3). As seen in Figure 6.9.3, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.9.3 Input File Differences for Test Case #9, BF2_QB0600_ES47_TEST9_HETER_INP.DIF and BF2_QB0600_ES47_TEST9_HOMOG_INP.DIF

BF2_QB0600_ES47_TEST9_HETER_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   71    GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   72    15*0.0
   73    DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
   71    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
  129    NBORERESET
  130    0
  131    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
  127    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
  143    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  144    1.000000E-02 1.000000E-03
  145    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  146    0
  147    FRACTURE MODEL FLAG
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
```

```
  139    FRACTURE MODEL FLAG
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
  193    0.0 0.0 F
  194    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  195    1.0 1.0
  196    RATE CONSTANTS: BRUCITEI AND BRUCITEH
  197    0.0 0.0
  198    RATE COEFFICIENTS: RXH2S AND RXCO2
  199    CHEMISTRY CUTOFF SATURATION: SOCMIN
  200    0.0
  201    REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  202    2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  203    REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  204    8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  205    S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  206    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  207    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  208    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  209    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  210    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  211    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  212    0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  213    REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  214    7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  215    REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  216    3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  217    WICKING SATURATION, LARXN, ALPHARXN
  218    0.0000E+00 F F 5.0000E+01
  219    WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
  185    0.0 0.0
  186    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  187    1.0 1.0
  188    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  189    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  190    SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
  191    1.0E+00 0.0 1.0000E+00
  192    SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
  193    1.0000E+00 0.0000E+00 1.0000E+00
  194    WICKING SATURATION, LARXN, ALPHARXN
  195    0.0000E+00 F 5.0000E+01
  196    WILL CREEP CLOSURE BE ACTIVATED?
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_TEST9_HETER_QA0500.INP;1
```

BF2_QB0600_ES47_TEST9_HOMOG_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   71    GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   72    15*0.0
   73    DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
   71    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
  127    NBORERESET
  128    0
  129    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
  125    # LAMBDA SOR SGR
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
  135     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  136     1.000000E-02 1.000000E-03
  137     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  138     0
  139     FRACTURE MODEL FLAG
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
  131     FRACTURE MODEL FLAG
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
  185     0.0 0.0 F
  186     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  187     1.0 1.0
  188     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  189     0.0 0.0
  190     RATE COEFFICIENTS: RXH2S AND RXCO2
  191     CHEMISTRY CUTOFF SATURATION: SOCMIN
  192     0.0
  193     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  194     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  195     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  196     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  197     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  198     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  199     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  200     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  201     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  202     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  203     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  204     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  205     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  206     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  207     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  208     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  209     WICKING SATURATION, LARXN, ALPHARXN
  210     0.0000E+00 F F 5.0000E+01
  211     WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
  177     0.0 0.0
  178     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  179     1.0 1.0
  180     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  181     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  182     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
  183     1.0E+00 0.0 1.0000E+00
  184     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
  185     1.0000E+00 0.0000E+00 1.0000E+00
  186     WICKING SATURATION, LARXN, ALPHARXN
  187     0.0000E+00 F 5.0000E+01
  188     WILL CREEP CLOSURE BE ACTIVATED?
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_TEST9_HOMOG_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.9.4 Test Results

Regression testing is used for Test Case #9 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output files, BF2_QB0600_ES47_TEST9_HETER.OUT and BF2_QB0600_ES47_TEST9_HOMOG.OUT, from Test Case #9 of BRAGFLO 6.0 run on the ES47 are compared to the output files, BF2_VMS82_V500_ES47_TEST9_HETER.OUT and BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST9_HETER_OUT.DIF and BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF, which are shown in Appendix A.9.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.9.4.

FIGURE 6.9.4 Summary of Difference Statistics for Test Case #9

BF2_QB0600_ES47_TEST9_HETER_OUT.DIF

```
Number of difference sections found: 18
Number of difference records found: 204

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 12 sections;
- Differences due to new input: 6 sections.

BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

```
Number of difference sections found: 18
Number of difference records found: 205

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 12 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST9_HETER.OUT, BF2_QB0600_ES40_TEST9_HOMOG.OUT, from Test Case #9 of BRAGFLO 6.0 run on the

ES40, and BF2_QB0600_ES45_TEST9_HETER.OUT and BF2_QB0600_ES45_TEST9_HOMOG.OUT, from Test Case #9 of BRAGFLO 6.0 run on the ES45, are compared to the output files, BF2_QB0600_ES47_TEST9_HETER.OUT and BF2_QB0600_ES47_TEST9_HOMOG.OUT, using the VMS DIFFERENCE command, with the results are stored in BF2_QB0600_ES40_TEST9_HETER.DIF, BF2_QB0600_ES40_TEST9_HOMOG.DIF, BF2_QB0600_ES45_TEST9_HETER.DIF and BF2_QB0600_ES45_TEST9_HOMOG.DIF (Appendix A.9.4), respectively. Examination of these files shows that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #9 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #9 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.10 Test Case #10. No Flow Boundary Conditions

6.10.1 Test Objective

The purpose of this test is to verify that the default no flow boundary conditions are implemented correctly by comparing BRAGFLO results with an analytical solution for a problem that incorporates a no flow boundary. This is a test of Functional Requirement R.4 and R.18.

The problem is a well drawdown in a finite radial reservoir. After the transient period the pressure front will reach the boundary after which time a semi-steady state drawdown will occur. The analytical solution is obtained from the solution of the radial diffusivity equation with constant production rate at the well and a no flow condition at the reservoir exterior boundary (Dake, 1978). The analytical solution for the wellbore pressure drawdown is

$$P - P_{wf} = \left(\frac{q\mu}{2\pi kh}\right)\left[\ln\left(\frac{r}{r_w}\right) - \frac{r^2}{2r_e^2} + \frac{r_w^2}{2r_e^2}\right] \tag{6.10.1}$$

where

P = reservoir pressure [Pa],
P_{wf} = wellbore flowing pressure [Pa],
q = well rate [m^3/s],
μ = water viscosity [Pa s],
k = formation permeability [m^2],
h = formation thickness [m],
r = radius [m],
r_w = well bore radius [m],
r_e = exterior radius to outer boundary [m].

Parameters for this study were taken to be

$q = 0.001$ m^3/s (for BRAGFLO, $q = 1.0$ kg/s, since $\rho_w = 1000$ kg/m^3),
$\mu = 1.8 \times 10^{-3}$ Pa s,
$k = 1.8 \times 10^{-12}$ m^2,
$h = 1.0$ m,
$r_w = 0.01$ m,
$r_e = 100$ m.

The following estimate of the time to obtain semi-steady state is given by (Dake, 1978):

$$t > \frac{\phi\mu c A}{k} \tag{6.10.2}$$

where

ϕ = porosity,0.1,
c = formation compressibility, 1.0×10^{-8} [Pa^{-1}],

A = reservoir area, πr_e^2 [m^2].

The time to semi-steady state is approximately

$$t > \frac{\phi \mu c \pi r_e^2}{k} = \frac{(0.1)(1.8\times10^{-3})(1.0\times10^{-8})\pi(100^2)}{1.8\times10^{-12}} = \pi(10^4)\,\text{s}. \tag{6.10.3}$$

The simulation is run to 1.0×10^5 s.

A plot of the analytical solution is shown in Figure 6.10.1. Numerical values for the analytical solution are shown in Table 6.10.1.

FIGURE 6.10.1 Case #10: Pressure Drawdown at Semi-Steady State Time, t = 105 s.

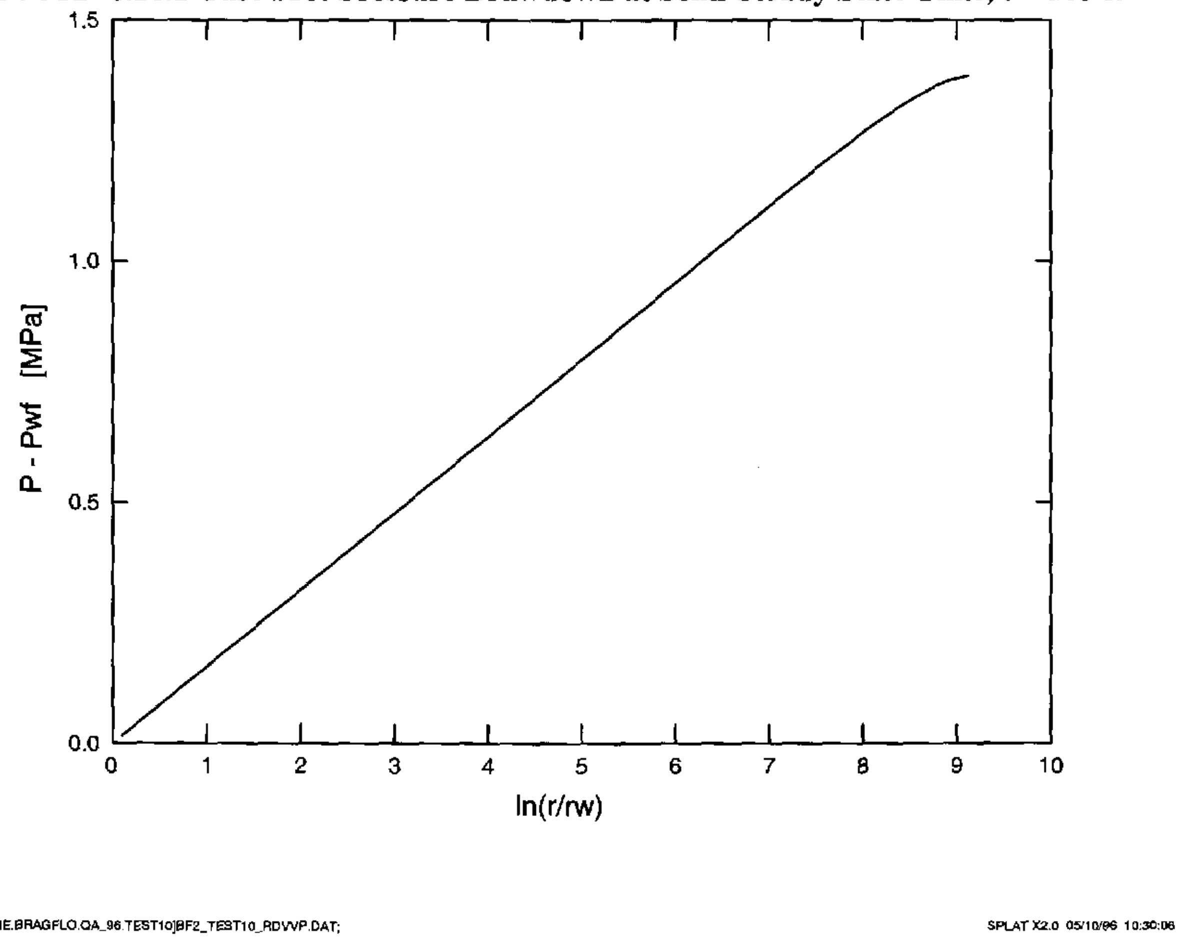


TABLE 6.10.1 Analytical Solution for Test Case #10, from BF2_TEST10.DAT

$\ln(r/r_w)$	Analytical Solution: $(P - P_{wf})$ MPa
0.09839	0.015660
0.28636	0.045575
0.47433	0.075491
0.66229	0.105407
0.85026	0.135323
1.03822	0.165238
1.22619	0.195154
1.41416	0.225070
1.60212	0.254986
1.79009	0.284901
1.97805	0.314817
2.16602	0.344733
2.35399	0.374649
2.54195	0.404564
2.72992	0.434480
2.91788	0.464396
3.10585	0.494311
3.29382	0.524227
3.48178	0.554142
3.66975	0.584058
3.85772	0.613973
4.04568	0.643888
4.23365	0.673802
4.42161	0.703716
4.60958	0.733629
4.79755	0.763542
4.98551	0.793452
5.17348	0.823360
5.36144	0.853264
5.54941	0.883164
5.73738	0.913055
5.92534	0.942936
6.11331	0.972801
6.30128	1.002643
6.48924	1.032450
6.67721	1.062209
6.86517	1.091896
7.05314	1.121478
7.24111	1.150908
7.42907	1.180116
7.61704	1.209002
7.80500	1.237417
7.99297	1.265148
8.18094	1.291882
8.36890	1.317164
8.55687	1.340331
8.74483	1.360418
8.93280	1.376020
9.12077	1.385090

6.10.2 Test Procedure

Test Case #10 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #10, .LOG files, BF2_QB0600_ES40_TEST10_RUN.LOG, BF2_QB0600_ES45_TEST10_RUN.LOG and BF2_QB0600_ES47_TEST10_RUN.LOG are included in Appendix A.10.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #10.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #10 for BRAGFLO 4.10, the acceptance criteria were comparisons with analytical solutions of the output from the test case (Schreiber 1997a). The code BF2_TEST10_POST.FOR was run to perform several post-processing functions: 1) It extracts results from the BRAGFLO ASCII output file; 2) it calculates the analytical solution at the same radial distances from the wellbore at which BRAGFLO has output results; 3) it calculates the absolute and relative errors in the BRAGFLO results compared with the analytical results; and 4) it places the results for both BRAGFLO and the analytical solution into a data file, BF2_TEST10.DAT, which is input to the plotting software, SPLAT. The resulting plots superimposed BRAGFLO results and the analytical solutions. Numerical comparisons were also performed.

6.10.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST10.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.10.2. This file is generated by modifying the input file, BF2_TEST10_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST10_INP.DIF (Figure 6.10.2). As seen in Figure 6.10.2, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.10.2 Input File Differences for Test Case #10, BF2_QB0600_ES47_TEST10_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
   84     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   85     50*0.0
   86     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_TEST10_QA0500.INP;1
   84     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
  141     NBORERESET
  142     0
  143     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_TEST10_QA0500.INP;1
  139     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
  152     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  153     1.000000E-02 1.000000E-03
  154     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  155     0
  156     FRACTURE MODEL FLAG
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_TEST10_QA0500.INP;1
  148     FRACTURE MODEL FLAG
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
```

```
  202     0.0 0.0 F
  203     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  204     1.0 1.0
  205     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  206     0.0 0.0
  207     RATE COEFFICIENTS: RXH2S AND RXCO2
  208     CHEMISTRY CUTOFF SATURATION: SOCMIN
  209     0.0
  210     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  211     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  212     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  213     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  214     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  215     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  216     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  217     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  218     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  219     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  220     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  221     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  222     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  223     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  224     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  225     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  226     WICKING SATURATION, LARXN, ALPHARXN
  227     0.0000E+00 F F 5.0000E+01
  228     WILL CREEP CLOSURE BE ACTIVATED?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_TEST10_QA0500.INP;1
  194     0.0 0.0
  195     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  196     1.0 1.0
  197     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  198     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  199     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O+c*FE=> a*H2+inert solids
  200     1.0E+00 0.0 1.0000E+00
  201     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O+c*CH2O=> a*GAS+inerts
  202     1.0000E+00 0.0000E+00 1.0000E+00
  203     WICKING SATURATION, LARXN, ALPHARXN
  204     0.0000E+00 F 5.0000E+01
  205     WILL CREEP CLOSURE BE ACTIVATED?
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_TEST10_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.10.4 Test Results

Regression testing is used for Test Case #10 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST10.OUT, from Test

Case #10 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST10.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST10_OUT.DIF, which is shown in Appendix A.10.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.10.3.

FIGURE 6.10.3 Summary of Difference Statistics for Test Case #10

```
Number of difference sections found: 14
Number of difference records found: 196

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 8 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST10.OUT and BF2_QB0600_ES45_TEST10.OUT, from Test Case #10 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST10.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST10_OUT.DIF and BF2_QB0600_ES45_TEST10_OUT.DIF (Appendix A.10.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #10 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #10 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.11 Test Case #11. Pressure and Density of Water Column in Equilibrium

6.11.1 Test Objective

The purpose of this test is to verify that the mass balance equations that BRAGFLO solves are implemented correctly by comparing BRAGFLO results with an analytical solution for a problem that considers the pressure and density at the bottom of a column of water in gravity equilibrium. This is a test of Functional Requirement R.15 and R.18.

The mass balance equations that BRAGFLO solves are:

$$\begin{aligned}&\frac{\partial}{\partial x}\left[\frac{\alpha\rho k_x}{\mu}\left(\frac{\partial P}{\partial x}+\rho g\frac{\partial D}{\partial x}\right)\right]+\frac{\partial}{\partial y}\left[\frac{\alpha\rho k_y}{\mu}\left(\frac{\partial P}{\partial y}+\rho g\frac{\partial D}{\partial y}\right)\right]+\\&\frac{\partial}{\partial z}\left[\frac{\alpha\rho k_z}{\mu}\left(\frac{\partial P}{\partial z}+\rho g\frac{\partial D}{\partial z}\right)\right]+\alpha q=\frac{\partial}{\partial t}(\alpha\phi\rho S).\end{aligned} \tag{6.11.1}$$

where

x,y,z	= grid dimension [m],
α	= geometric factor, dependent upon dimensions of problem
ρ	= density [kg/m^3]
k_x, k_y, k_z,	= effective permeability [m^2],
μ	= viscosity [Pa s],
P	= pressure [Pa],
g	= local acceleration of gravity [m/s^2],
D	= elevation [m],
q	= all sources combined [kg/m^3 s],
t	= time [s],
ϕ	= porosity [m^3 void/m^3 rock],
S	= saturation [m^3 phase/m^3 void volume].

The test problem considers a water column 500 m high subdivided into 50 grid blocks, each 10 m thick. The elevation change between the top and bottom grid block centers is 490 m. Water compressibility is 1.0×10^{-8} Pa^{-1}, a value that is larger than actual water compressibility and used in order to magnify the effects of density change for this test problem. Initial pressure is 10 MPa throughout the grid. BRAGFLO is run until gravity equilibrium is obtained (1×10^6 sec). The conditions specified by BRAGFLO at the top of the water column are taken as reference conditions for the analytic solution. The analytic solution at the bottom of the column is then compared to the BRAGFLO solution at the bottom grid block.

6.11.2 Test Procedure

Test Case #11 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #11, .LOG files, BF2_QB0600_ES40_TEST11_RUN.LOG, BF2_QB0600_ES45_TEST11_RUN.LOG and BF2_QB0600_ES47_TEST11_RUN.LOG are included in Appendix A.11.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #11.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #11 for BRAGFLO 4.10, the acceptance criteria were comparisons with analytical solutions of the output from the test case (Schreiber 1997a).

6.11.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST11.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.11.2. This file is generated by modifying the input file, BF2_TEST11_DENNEW_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST11_INP.DIF (Figure 6.11.1). As seen in Figure 6.11.1, the differences between the input files consist of four sections that correspond to the new input information for BRAGFLO 6.0. The first section contains the input of the initial MgO concentration (with the values all set to zero), while the next section shows the input for the material change reset model (with the model disabled by the 0 in the input). The third section contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The last section contains the input parameters for the chemistry models, which are all disabled for this testcase.

FIGURE 6.11.1 Input File Differences for Test Case #11, BF2_QB0600_ES47_TEST11_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
   68     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
   69     50*0.0
   70     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
   68     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
  124     NBORERESET
  125     0
  126     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
  122     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
  132     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  133     1.000000E-02 1.000000E-03
  134     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  135     0
  136     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
  128     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
  159     0.0 0.0 F
  160     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  161     0.0 0.0
  162     RATE CONSTANTS: BRUCITEI AND BRUCITEH
  163     0.0 0.0
  164     RATE COEFFICIENTS: RXH2S AND RXCO2
  165     CHEMISTRY CUTOFF SATURATION: SOCMIN
  166     0.0
  167     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  168     2.01590E-03 1.80150E-02 5.58470E-02 2.70230E-02
  169     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  170     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
  171     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  172     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  173     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  174     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  175     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  176     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
```

```
  177     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  178     0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
  179     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  180     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  181     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  182     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  183     WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
  184     0.0 F F 1000.
  185     CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
  151     0.0 0.0
  152     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  153     0.0 0.0
  154     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
  155     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
  156     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
  157     1.1730E+00 1.6540E+00 1.0000E+00
  158     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
  159     7.6770E-01 0.0000E+00 1.0000E+00
  160     WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
  161     0.0 F 1000.
  162     CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED, PRES_LITHO TIME_INTRU
************

Number of difference sections found: 4
Number of difference records found: 34

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_TEST11_DENNEW_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.11.4 Test Results

Regression testing is used for Test Case #11 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST11.OUT, from Test Case #11 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST11_OUT.DIF, which is shown in Appendix A.11.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.11.2.

FIGURE 6.11.2 Summary of Difference Statistics for Test Case #11

```
Number of difference sections found: 17
Number of difference records found: 199

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 11 sections;
- Differences due to new input: 6 sections.

The ASCII output files, BF2_QB0600_ES40_TEST11.OUT and BF2_QB0600_ES45_TEST11.OUT, from Test Case #11 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST11.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST11_OUT.DIF and BF2_QB0600_ES45_TEST11_OUT.DIF (Appendix A.11.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #11 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #11 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.12 Test Case #12. Direct Brine Release

6.12.1 Test Objective

The purpose of this test is to verify that BRAGFLO 6.0 can read successfully an input file designed to model a direct brine release featuring a single waste region, as was done for the Compliance Certification Application (CCA) using BRAGFLO, Version 4.01. This is a test of Functional Requirement R.2 and R.18.

The test problem is taken from the suite of BRAGFLO DBR runs evaluated for the 1996 CCA analysis using BRAGFLO, Version 4.01 (BF4_BRAGFLO). It consists of two BRAGFLO runs. The first models direct brine releases for a second intrusion at 1200 yr. into the same waste panel that previously experienced an initial intrusion that penetrated both the repository and an underlying brine reservoir in the Castile formation at 1000 yr. The second BRAGFLO run models direct brine releases for a second intrusion at 1200 yr. into a different waste panel than one that previously experienced an initial intrusion that penetrated both the repository and an underlying brine reservoir in the Castile formation at 1000 yr.

6.12.2 Test Procedure

Test Case #12 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #12, .LOG files, BF2_QB0600_ES40_TEST12_UPPER_RUN.LOG,
BF2_QB0600_ES40_TEST12_LOWER_RUN.LOG,
BF2_QB0600_ES45_TEST12_UPPER_RUN.LOG,
BF2_QB0600_ES45_TEST12_LOWER_RUN.LOG,
BF2_QB0600_ES47_TEST12_UPPER_RUN.LOG, and
BF2_QB0600_ES47_TEST12_LOWER_RUN.LOG are included in Appendix A.12.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #12.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 was determined to be valid by comparison to the output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 (Stein; Zelinski, 2004b). The output of BRAGFLO 4.10 on the Compaq ES45 running OpenVMS 7.3-1 was determined valid by comparison to the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 (Fox; Trone, 2003). In turn, the output of BRAGFLO 4.10 from the Compaq ES40 running OpenVMS 7.3-1 was determined to be valid by comparison to the output of the validation of BRAGFLO 4.10, done on an Alpha 2100 running OpenVMS 6.1 (Hanson; Fox; Trone, 2003). In the validation for Test Case #12 for BRAGFLO 4.10, the acceptance criteria were manual inspection of the output (Schreiber 1997a).

6.12.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first type of input file, BF2_QB0600_TEST12_UPPER.INP and BF2_QB0600_TEST12_LOWER.INP are ASCII control files generated by the PREBRAG software module and are shown in Appendix A.12.2. These files are generated by modifying the input files, BF2_R1_S3_V046_T1200_U_QA0500.INP and BF2_R1_S3_V046_T1200_L_QA0500.INP, which were used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these files and the differences are recorded in the ASCII files, BF2_QB0600_ES47_TEST12_UPPER_INP.DIF and BF2_QB0600_ES47_TEST12_LOWER_INP.DIF (Figure 6.12.1). As seen in Figure 6.12.1, the differences between the input files consist of five section for BF2_QB0600_ES47_TEST12_UPPER_INP.DIF and six sections for BF2_QB0600_ES47_TEST12_LOWER_INP.DIF. Five sections correspond to the new input information for BRAGFLO 6.0. The first sections of both files contain flags to write the new output variables for BRAGFLO 6.0 to the binary files. The order of the flags changed in BRAGFLO 6.0, but the input file flags are set to output the same variables as before. The second sections of both files contain the input of the initial MgO concentration (with the values all set to zero), while the third sections of both files show the input for the material change reset model (with the model disabled by the 0 in the input). The fourth sections of both files contain the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). The fifth section for BF2_QB0600_ES47_TEST12_LOWER_INP.DIF shows the cleanup of two extra 1s that are not used or read. The last sections of both files contain the density input parameters for the chemistry models, which are not used for this testcase.

FIGURE 6.12.1 Input File Differences for Test Case #12, BF2_QB0600_ES47_TEST12_UPPER_INP.DIF and BF2_QB0600_ES47_TEST12_LOWER_INP.DIF

BF2_QB0600_ES47_TEST12_UPPER_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   41     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   42     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
   41     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   42     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
  299     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  300     39*0.000000E+00
  301     39*0.000000E+00
  302     39*0.000000E+00
  303     39*0.000000E+00
  304     39*0.000000E+00
  305     39*0.000000E+00
  306     39*0.000000E+00
  307     39*0.000000E+00
  308     39*0.000000E+00
  309     39*0.000000E+00
  310     39*0.000000E+00
  311     39*0.000000E+00
  312     39*0.000000E+00
  313     39*0.000000E+00
  314     39*0.000000E+00
  315     39*0.000000E+00
  316     39*0.000000E+00
  317     39*0.000000E+00
  318     39*0.000000E+00
  319     39*0.000000E+00
  320     39*0.000000E+00
  321     39*0.000000E+00
  322     39*0.000000E+00
  323     39*0.000000E+00
  324     39*0.000000E+00
  325     39*0.000000E+00
  326     39*0.000000E+00
  327     39*0.000000E+00
  328     39*0.000000E+00
  329     39*0.000000E+00
  330     39*0.000000E+00
  331     39*0.000000E+00
  332     39*0.000000E+00
  333     39*0.000000E+00
  334     39*0.000000E+00
  335     39*0.000000E+00
  336     39*0.000000E+00
  337     39*0.000000E+00
  338     39*0.000000E+00
  339     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
  299     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
  458     NBORERESET
  459     0
  460     # LAMBDA SOR SGR
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
  418     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
  475     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  476     1.000000E-02 1.000000E-03
  477     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  478     0
  479     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
  433     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
  524     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  525     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  526     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  527     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  528     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
  478     CREEP CLOSURE?
************

Number of difference sections found: 5
Number of difference records found: 51

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;1
```

BF2_QB0600_ES47_TEST12_LOWER_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   41     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   42     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
   41     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   42     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  317     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  318     39*0.000000E+00
  319     39*0.000000E+00
  320     39*0.000000E+00
  321     39*0.000000E+00
  322     39*0.000000E+00
  323     39*0.000000E+00
  324     39*0.000000E+00
  325     39*0.000000E+00
  326     39*0.000000E+00
  327     39*0.000000E+00
  328     39*0.000000E+00
  329     39*0.000000E+00
  330     39*0.000000E+00
  331     39*0.000000E+00
  332     39*0.000000E+00
  333     39*0.000000E+00
  334     39*0.000000E+00
  335     39*0.000000E+00
  336     39*0.000000E+00
  337     39*0.000000E+00
  338     39*0.000000E+00
  339     39*0.000000E+00
  340     39*0.000000E+00
  341     39*0.000000E+00
  342     39*0.000000E+00
```

```
  343     39*0.000000E+00
  344     39*0.000000E+00
  345     39*0.000000E+00
  346     39*0.000000E+00
  347     39*0.000000E+00
  348     39*0.000000E+00
  349     39*0.000000E+00
  350     39*0.000000E+00
  351     39*0.000000E+00
  352     39*0.000000E+00
  353     39*0.000000E+00
  354     39*0.000000E+00
  355     39*0.000000E+00
  356     39*0.000000E+00
  357     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
  317     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  500     NBORERESET
  501     0
  502     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
  460     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  517     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  518     1.000000E-02 1.000000E-03
  519     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  520     0
  521     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
  475     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  536     1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
  537     GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
  490     1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 1 1
  491     GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
  566     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  567     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
  568     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  569     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
  570     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
  520     CREEP CLOSURE?
************

Number of difference sections found: 6
Number of difference records found: 52

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by

BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.12.4 Test Results

Regression testing is used for Test Case #12 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output files, BF2_QB0600_ES47_TEST12_UPPER.OUT and BF2_QB0600_ES47_TEST12_LOWER.OUT, from Test Case #12 of BRAGFLO 6.0 run on the ES47 are compared to the output files, BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT and BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF and BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF, with differences due to reporting of new input information indicated in bold italics (Appendix A.12.3). A summary of differences is listed in Figure 6.12.2.

FIGURE 6.12.2 Summary of Difference Statistics for Test Case #12

BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF

```
Number of difference sections found: 14
Number of difference records found: 157

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 10 sections;
- Differences due to new input: 4 sections.

BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF

```
Number of difference sections found: 14
Number of difference records found: 155

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
```

- Difference in dates and times, file and directory names platform names, and execution statistics: 10 sections;
- Differences due to new input: 4 sections.

The ASCII output files, BF2_QB0600_ES40_TEST12_UPPER.OUT, BF2_QB0600_ES40_TEST12_LOWER.OUT, BF2_QB0600_ES45_TEST12_UPPER.OUT and BF2_QB0600_ES45_TEST12_LOWER.OUT, from Test Case #12 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output files, BF2_QB0600_ES47_TEST12_UPPER.OUT and BF2_QB0600_ES47_TEST12_LOWER.OUT, using the VMS DIFFERENCE command, with the results are stored in BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF, BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF, BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF and BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF (Appendix A.12.4), respectively. Examination of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no unacceptable differences in values of output variables for Test Case #12 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #12 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.13 Test Case #13. Error Reporting for Incorrect Number of Waste Material Regions

6.13.1 Test Objective

There must be a separate waste material region for each region of the model that is to contain waste [R.19]. In order to test requirement R.19, the input file for Test Case #6 is altered so that there is only one waste material region for two regions, WAS_AREA and REPOSIT, that will contain waste (WIPP PA 2004). Test Case #13 is run with the incorrect input file, and BRAGFLO should terminate with an error message

6.13.2 Test Procedure

Test Case #13 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #13, .LOG files, BF2_QB0600_ES40_TEST13_RUN.LOG, BF2_QB0600_ES45_TEST13_RUN.LOG and BF2_QB0600_ES47_TEST13_RUN.LOG are included in Appendix A.13.1. These indicate the files that are used or generated.

To validate BRAGFLO 6.0 on all three platforms, the following procedure is performed for Test Case #13.

1) Validation test results from BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 5.0 run on the ES47 with OpenVMS 8.2 (Nemer, 2006).
2) Validation test results from BRAGFLO 6.0 run on the ES40 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.
3) Validation test results from BRAGFLO 6.0 run on the ES45 with OpenVMS 8.2 are compared to results from the validation tests of BRAGFLO 6.0 run on the ES47 with OpenVMS 8.2.

The VMS DIFFERENCE command is used to compare the output file from BRAGFLO 6.0 to the corresponding output file as outlined above. Differences are recorded in ASCII files. Differences that involve dates and times, file and directory names, platform names, code version and date, and execution statistics are deemed to be acceptable. In addition, differences, involving the reporting of new input information for BRAGFLO 6.0 in the output files, are acceptable and desirable, because they improve documentation of analyses. Numerical differences, if any, are evaluated according the requirements of the BRAGFLO 6.0 RD/VVP (Nemer, 2007).

The results from the validation test of BRAGFLO 5.0 on the ES47 running OpenVMS 8.2 were determined valid by comparison to the output from the validation of BRAGFLO 5.0 on the ES40 with OpenVMS 7.3-1 (Nemer, 2006). The output of BRAGFLO 5.0 on the ES40 with

OpenVMS 7.3-1 was determined to be valid by manual inspection of the output file (Stein; Zelinski, 2004b).

6.13.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST13.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.13.2. This file is generated by modifying the input file, BF2_TEST13_QA0500.INP, which was used in the validation of BRAGFLO 5.0, for the new input information for BRAGFLO 6.0. The VMS DIFFERENCE command is used to compare these two files and the differences are recorded in the ASCII file, BF2_QB0600_ES47_TEST13_INP.DIF (Figure 6.13.1). As seen in Figure 6.13.1, the differences between the input files consist of thirteen sections that correspond to the new input information for BRAGFLO 6.0. The first and second sections contain flags to write the new output variables for BRAGFLO 6.0 to the ASCII and binary files. The order of the flags changed in BRAGFLO 6.0, but the input file flags are set to output the same variables as before. The third section contains the input of the initial MgO concentration (with the values all set to zero). Sections 4 to 11 shows changes made for the waste area reset model. This model is improved to enable more materials to be reset, instead of being limited to the waste materials (i.e. the shaft, open drifts, etc.) Material #10 CAVITY_4 had two different reset saturations which necessitated the introduction of a new material labeled #39 CAVITY_5 to represent both saturations. Material #39 is given the same properties as #10 (which it replaced in three cells), except for the reset saturation. Section 4 shows the replacement of material #10 with #39. Sections 5, 9, 10 and 11 show the added properties for material #39. Sections 6, 7, and 8 show the reset parameters added for the model change. The values are set to give the same conditions as are given before for the testcase. Section 8 also shows the input for the material change reset model (with the model disabled by the 0 in the input). Section 11 also contains the input parameters for permeability models 11 and 12 (which are not used in this testcase), as well as for the smooth permeability model (with the model disabled by the 0 in the input). Section 12 contains the input parameters for the chemistry models, which are set to the previous testcase values, except for RKCOR and RKBIO, which are divided by the initial concentration of Fe and cellulose, respectively, to test the intrinsic rate flag. The last section contains the inputs for the closure model, which contains the same values as before, but in a different input structure.

FIGURE 6.13.1 Input File Differences for Test Case #13, BF2_QB0600_ES47_TEST13_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
   29    1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1
   30    1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
   29    1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 0 0
   30    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
   35    1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 0 0 0 0 0 1 1 1
   36    1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
     1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 0 0
     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
     0.000000E+00
     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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 1265     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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 1267     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1268     0.000000E+00
 1269     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1270     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1271     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1272     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1273     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1274     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1275     0.000000E+00
 1276     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
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 1278     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1279     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1280     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1281     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1282     0.000000E+00
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 1284     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1285     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1286     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1287     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1288     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1289     0.000000E+00
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 1292     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1293     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1294     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1295     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1296     0.000000E+00
 1297     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1298     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1299     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1300     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1301     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1302     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1303     0.000000E+00
 1304     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1305     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1306     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1307     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1308     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1309     0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 1310     0.000000E+00
 1311     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1121     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1394     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1395     11 11 11 11 11
 1396     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1397     11 11 11 11 11
 1398     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1399     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1204     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1205     11 11 11 11 11
 1206     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1207     11 11 11 11 11
 1208     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1209     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1610     39 CAVITY_5
 1611     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1420     NWST
************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1619     5
 1620     MATRESET
 1621     7 8 9 10 39
 1622     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1428     4
 1429     MATRESET
 1430     7 8 9 10
 1431     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1629     1.013250E+05
 1630     1.013250E+05
 1631     1.013250E+05
 1632     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1438     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1635     0.000000E+00
 1636     0.250000E+00
 1637     0.200000E+00
 1638     PRESDRZ
 1640     NBORERESET
 1641     0
 1642     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1441     PRESDRZ
 1443     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1681     39 7.000000E-01 0.000000E+00 0.000000E+00
 1682     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1482     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1721     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1722     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1521     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1761     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1762     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1763     1.000000E-02 1.000000E-03
 1764     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1765     0
 1766     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1560     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1819     RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
 1820     1.9045188518798551E-10 2.7932414729320935E-09 T
 1821     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1822     1.000E-03 2.0000E-01
 1823     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1824     0.0000E+00 0.0000E+00
 1825     RATE COEFFICIENTS: RXH2S AND RXCO2
 1826     1.1100E+00 0.0000E+00
 1827     1.1100E+00 0.0000E+00
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 1828     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1829     0.0000E+00
 1830     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1831     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1832     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1833     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1834     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1835     1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1836     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1837     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1838     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1839     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1840     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1841     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1842     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1843     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1844     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1845     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1846     WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING, ALPHARXN
 1847     0.0000E+00 T F 1.0000E+03
 1848     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1613     RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 1614     3.000E-08 1.5000E-07
 1615     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1616     1.000E-03 2.0000E-01
 1617     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1618     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1619     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1620     1.3081E+00 1.3838E+00 1.0000E+00
 1621     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1622     1.1100E+00 0.0000E+00 1.0000E+00
 1623     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1624     0.0000E+00 T 1.0000E+03
 1625     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
 1852     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1853     4 1.4800E+07 3.1557E+12 1 F
 1854     MODPERM PARAMETERS
 1855     5.5847E-12 0.0000E+00
 1856     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
 1629     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1630     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1631     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 13
Number of difference records found: 252

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_TEST13_QA0500.INP;1
```

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.13.4 Test Results

Regression testing is used for Test Case #13 to show that the acceptance criteria for BRAGFLO 6.0 have been satisfied. The ASCII output file, BF2_QB0600_ES47_TEST13.OUT, from Test Case #13 of BRAGFLO 6.0 run on the ES47 is compared to the output file, BF2_VMS82_V500_ES47_TEST13.OUT (Nemer, 2006), using the VMS DIFFERENCE command. The results are stored in BF2_QB0600_ES47_TEST13_OUT.DIF, which is shown in Appendix A.13.3, with differences due to reporting of new input information indicated in bold italics. A summary of differences is listed in Figure 6.13.2.

FIGURE 6.13.2 Summary of Difference Statistics for Test Case #13

```
Number of difference sections found: 10
Number of difference records found: 94

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
```

- Difference in dates and times, file and directory names, code version and date, and execution statistics: 7 sections;
- Differences due to new input: 3 sections.

The ASCII output files, BF2_QB0600_ES40_TEST13.OUT and BF2_QB0600_ES45_TEST13.OUT, from Test Case #13 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST13.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST13_OUT.DIF and BF2_QB0600_ES45_TEST13_OUT.DIF (Appendix A.13.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

There are no differences in values of output variables for Test Case #13 between BRAGFLO 6.0 and BRAGFLO 5.0 running on the OpenVMS 8.2 operating system. Visual inspection of the ASCII output files confirmed that the input that describes the test case is read correctly. Based on the comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #13 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

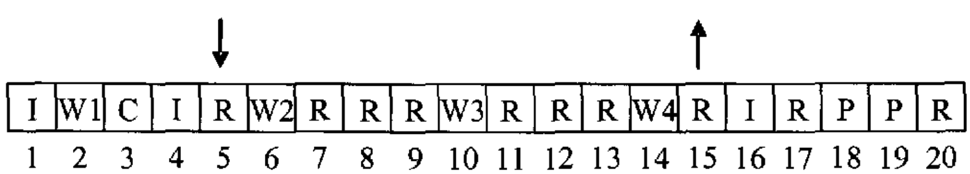
6.14 Test Case #14. Additional Iron and MgO Chemistry

6.14.1 Test Objective

The purpose of this test is to exercise the new functional requirements introduced for BRAGFLO 6.0 for the new chemistry model (R.20-R.23), as well as the model to smoothly change the permeability of materials as a function of time (R.24). Furthermore, this test case assesses the previous requirements with new additions, such as, the MgO initial concentration setup (R.5), the reset capability of during a material change (R.7) and the additional relative permeability and capillary pressure models (R.8). Moreover, this test case tests the basic Functional Requirements R.1 to R.3, R.6, R.11 to R.17, R.26 and R.27, although these requirements are not explicitly examined.

The 1-D test case is discretized into 20 distinct 1 meter sections (Figure 6.14.1). Four separate waste areas are designated, each with varying Iron/Cellulosics/MgO concentrations (R.5) as seen in Table 6.14.1. The Waste area #1 is effectively separated from the other waste areas by a section of material with a very low permeability (10^{-35} m^2). Waste area #1 (section 2) is initialized with Iron, Cellulosics and MgO, with zero saturation. The saturation increases due to flow from the adjacent section and as closure occurs. The chemistry rates in this area should be zero until the saturation cutoff is reached (R.21). Waste area #2 (section 6) is initialized with only MgO to employ only the MgO hydration reaction. Waste area #3 (section 10) is initialized with Cellulosics and MgO to utilize the MgO hydration and carbonation reactions. Waste area #4 (section 14) is initialized with Iron and Cellulosics to exercise the Iron sulfidation reactions. The chemistry rates in each waste area are proportional to the initial concentration (R.22), with the volume of solids produced, calculated in each waste area (R.23). At 8,000 years, the chemical species of Waste area #1 will be reset to zero (R.7).

To facilitate brine to the reactions for waste areas 2 through 4, wells are used to introduce brine and regulate the pressure. As seen represented by the arrows in Figure 6.14.1, on the left side of the waste areas there is a well that injects 10^{-16} kg/s of brine, while on the right side, there is a well with a productivity index of 10^{-6} m^3. This effectively keeps the pressure constant and the saturation high for waste areas 2 through 4.



C = Cavity R = Rock

I = Impermeable W# = Waste #

P = Changes Permeability → = Well Flow

FIGURE 6.14.1 Representation of Grid Used for Test Case #14.

TABLE 6.14.1 Initial Chemical Concentrations (kg/m³) for Waste Areas in Test Case #14.

Waste #	Iron	Cellulosics	MgO
1	100	50	100
2	0	0	110
3	0	45	90
4	110	55	0

Sections 18 and 19 contain material that will smoothly change permeability from 1,000 to 2,000 years and then back to the original permeability from 8,000 to 9,000 years (R.24). The pressure and saturation of Sections 18 and 19 will also be changed at 3,000 years (R.7).

Section 3 simulates an open cavity and is used to exercise a new relative permeability and capillary pressure model, while the new model for the waste area will also be used (R.8).

6.14.2 Test Procedure

Test Case #14 is run using the WIPP PA run control system. The scripts, script input files, and all other files related to validation testing of BRAGFLO 6.0 reside in QB0600 class of the CMS library, LIBBF. All test inputs are fetched at run time by the scripts, and test outputs/results and run logs are automatically stored by the scripts in the CMS library. The test case is run on each of the three platforms, ES40, ES45 and ES47. Excerpts from the BRAGFLO 6.0, Test Case #14, .LOG files, BF2_QB0600_ES40_TEST14_RUN.LOG, BF2_QB0600_ES45_TEST14_RUN.LOG and BF2_QB0600_ES47_TEST14_RUN.LOG are included in Appendix A.14.1. These indicate the files that are used or generated.

Unlike, Test Cases 1-13, regression analysis is not used for the validation of Test Case #14 of BRAGFLO 6.0 on the ES47. This is a new test case designed for the new functional requirements introduced for BRAGFLO 6.0. The validation analyses described in the RD/VVP for Test Case #14 are conducted. Then, the results on the ES40 and ES45 are regression tested against the results on the ES47.

To validate BRAGFLO 6.0 on the ES47, relevant information is extracted from the BRAGFLO ASCII output file, BF2_QB0600_ES47_TEST14.OUT and compared to input file values or results of independent calculations using an Excel spreadsheet. Some values are also obtained from the BRAGFLO 6.0 binary output file, BF2_QB0600_ES47_TEST14.BIN. The software module, POSTBRAG, is used to convert BF2_QB0600_ES47_TEST14.BIN into the file, BF2_QB0600_ES47_TEST14.CDB, which can be read by the software, GROPECDB and BLOTCDB. GROPECDB is used to extract specific values for comparison to results listed in the ASCII output file. BLOTCDB is used to generate plots for comparison, in order to show the entire time history of the variables. The comparison results must agree to three significant figures or to the number of significant figures reported in the output, which ever is less.

6.14.3 Input Files

Two types of input files are required to run BRAGFLO 6.0. The first input file, BF2_QB0600_TEST14.INP, is an ASCII control file generated by the PREBRAG software module and is shown in Appendix A.14.2. This file is generated for the validation testing of Test Case #14.

The second input file, BF2_CLOSURE.DAT, contains the closure surface data required by BRAGFLO to define the creep closure surface within the repository. The same input file is used for all 14 test cases. It is too wide to fit the format of a written report, but it is stored in class QB0600 of the CMS library. BF2_CLOSURE.DAT is an ASCII input file that is read by BRAGFLO if creep closure is to be simulated. If creep closure is not to be simulated a dummy file must be included even though this dummy file will not be read. The user is responsible for the creation of a file with porosity surface information. It is not generated by PREBRAG, but a .CSD file is generated by the SANTOS software module, which can be used as the BRAGFLO 6.0 input file.

6.14.4 Test Results

The acceptance criteria for Test Case #14 are independent calculations and manual inspection of the output to verify that BRAGFLO is performing the calculations correctly. The independent calculations using values of pressures and saturations reported in output files. The results from BRAGFLO and independent calculations agreed to three significant figures (unless fewer digits are provided in the relevant BRAGFLO output or input file) which satisfied the validation criteria of the RD/VVP.

The independent calculations are performed using an Excel spreadsheet, which is stored in class QB0600 of the CMS library and is shown in Appendix A.14.3.

The independent calculations are done using values of pressures and saturations reported in output files. Both Excel and BRAGFLO calculations are done in double precision (15 digits). Thus round off error is not a significant issue between the methods of calculation. However, differences in the format of ASCII output data resulted in small differences with the independent calculations. The spreadsheet also contains comparisons of the independent calculations to corresponding output results from the output files, BF2_QB0600_ES47_TEST14.OUT and BF2_QB0600_ES47_TEST14.CDB. References to locations within the spreadsheet are included in the following description of testing results within brackets (i.e.{ nnn }).

Visual inspection of the ASCII output and independent calculations show that BRAGFLO 6.0 is valid on the ES47 running OpenVMS 8.2. There are no differences in values of output variables for Test Case #14 between the output from the ES40 and ES45 compared with the ES47. Based on the independent calculations and comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified for Test Case #14 in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

6.14.4.1 Initial MgO Concentration

The initial MgO concentration is tested in the four waste blocks by a manual inspection of the .OUT file and comparison with the values in the input file. Table 6.14.1 shows the initial chemical concentrations for the waste areas specified in the input file for Test Case #14.

The following parameter values reported in the output file are compared with input file values and are found to be in agreement to the number of digits reported.

C^0_{MgO} (Waste 1)	= 1.0E+02 kg MgO m^{-3}	{line 4}
C^0_{MgO} (Waste 2)	= 1.1E+02 kg MgO m^{-3}	{line 5}
C^0_{MgO} (Waste 3)	= 9.0E+01 kg MgO m^{-3}	{line 6}
C^0_{MgO} (Waste 4)	= 0.0E+00 kg MgO m^{-3}	{line 7}

This verifies the new addition to Functional Requirement R.5 for BRAGFLO 6.0.

6.14.4.2 Material Change Reset Model

The material change reset model is tested by manual inspection of the .OUT file, comparison with the values in the input file and by plotting results from the .CDB file using BLOTCDB.

The following parameter values reported in the output file are compared with input file values and are found to be in agreement to the number of digits reported.

Intrustion Time 1	= 9.46730E+10 s	{line 9}
Material 1	= 3	{line 10}
Reset Pressure 1	= 6.00000E+05 s	{line 11}
Reset Saturation 1	= 5.00000E-01 s	{line 12}
Chemistry Reset Flag 1	= F	{line 13}
Intrustion Time 2	= 9.46730E+10 s	{line 14}
Material 2	= 7	{line 15}
Reset Pressure 2	= Pressure is not reset	{line 16}
Reset Saturation 2	= Brine Satn is not reset	{line 17}
Chemistry Reset Flag 2	= F	{line 18}
Intrustion Time 3	= 2.52460E+11 s	{line 19}
Material 3	= 8	{line 20}

Reset Pressure 3	= Pressure is not reset	{line 21}
Reset Saturation 3	= Brine Satn is not reset	{line 22}
Chemistry Reset Flag 3	= T	{line 23}

The material change reset model is validated with elements 6, 7 and 18 as these contain materials 8, 7 and 3, respectively, since these are the materials specified by the input file. The elements 6, 7 and 18 correspond to grid cells (2,1,1), (6,1,1) and (18,1,1), respectively.

In Test Case #14 the pressure for material 3 (element 18) is set to change to 6.0E+05 at 3,000 years (9.4673E+10 s), while the pressure for material 8 (element 6) should not be reset. The pressure history for elements 6 and 18 is shown below in Figure 6.14.2. As seen in Figure 6.14.2, there is a step change in pressure to 6.0E+05 for element 18 at 3,000 years, while no step change is present for element 6.

In Test Case #14 the brine saturation for material 3 (element 18) is set to change to 5.0E-01 at 3,000 years (9.4673E+10 s), while the brine saturation for material 8 (element 6) should not be reset. The brine saturation history for elements 6 and 18 is shown below in Figure 6.14.3. As seen in Figure 6.14.3, there is a step change in the brine saturation to 5.0E-01 for element 18 at 3,000 years, while no step change is present for element 6.

In Test Case #14, the species concentrations for material 8 (element 6) is set to change to 0 at 8,000 years (2.5246E+11 s), while the species concentrations for material 7 (element 7) should not be reset. The MgO concentration for element 6 and the $Mg(OH)_2$ concentration for element 7 are shown below in Figure 6.14.4. As seen in Figure 6.14.4, there is a step change in the MgO concentration to 0 for element 6 at 8,000 years, while no step change in the $Mg(OH)_2$ concentration is present for element 7.

This verifies the new addition to Functional Requirement R.7 for BRAGFLO 6.0.

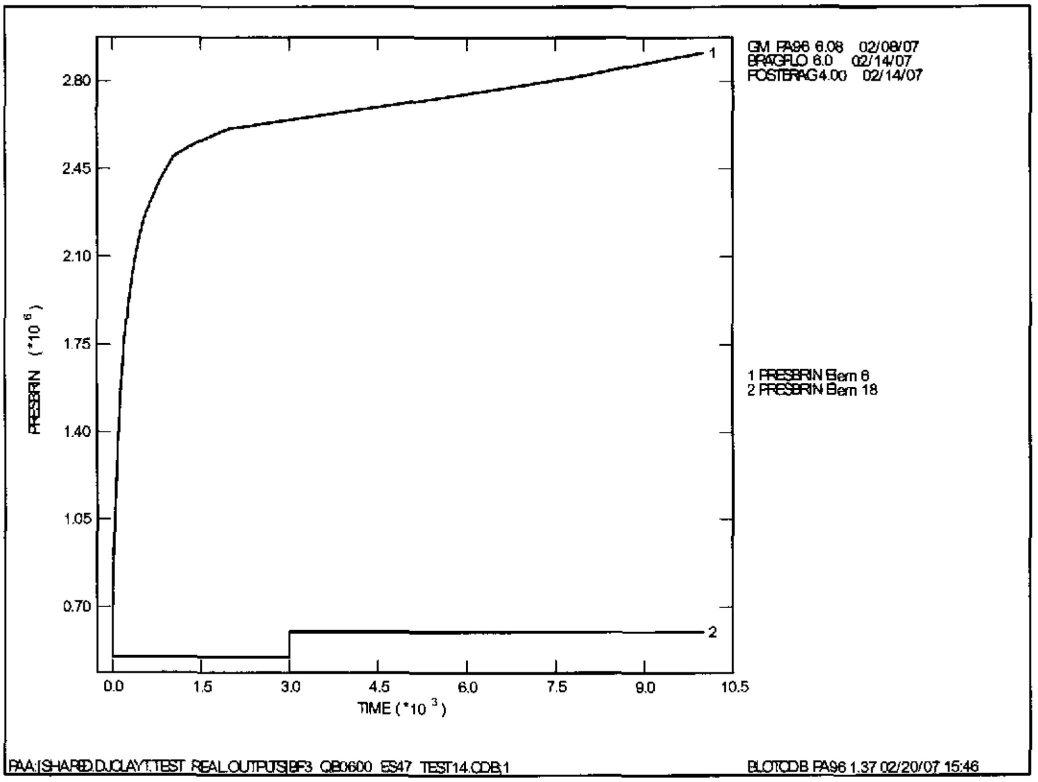


FIGURE 6.14.2 Pressure history for elements 6 and 18.

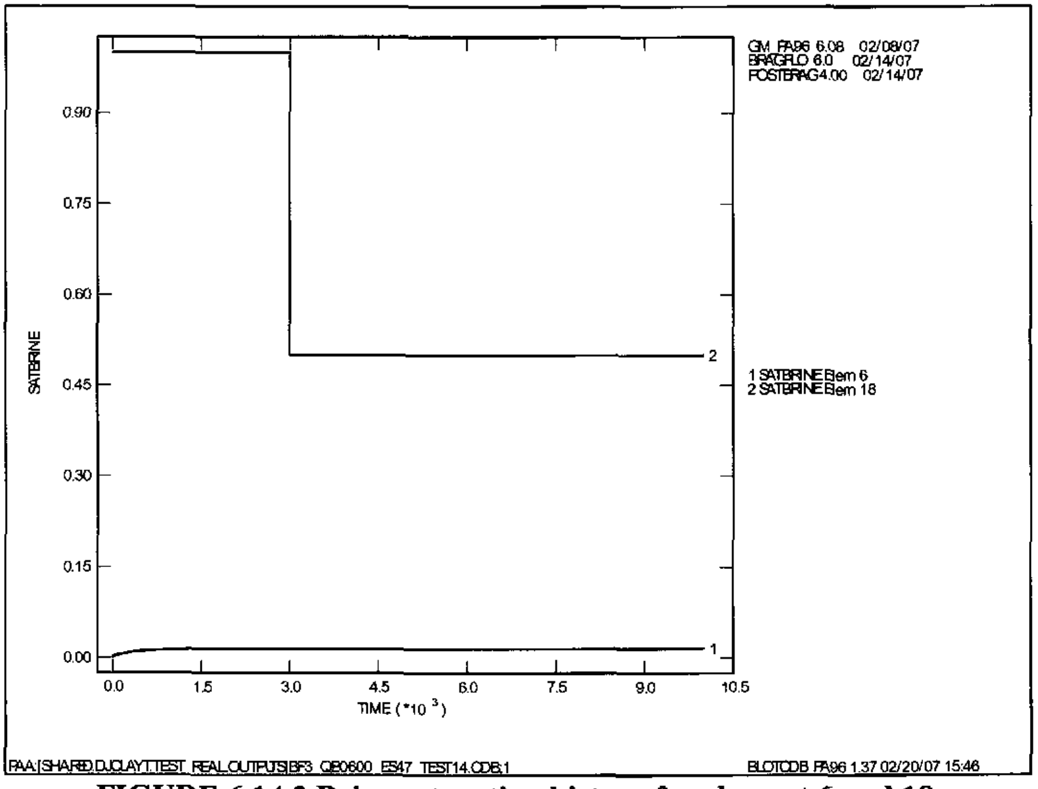


FIGURE 6.14.3 Brine saturation history for element 6 and 18.

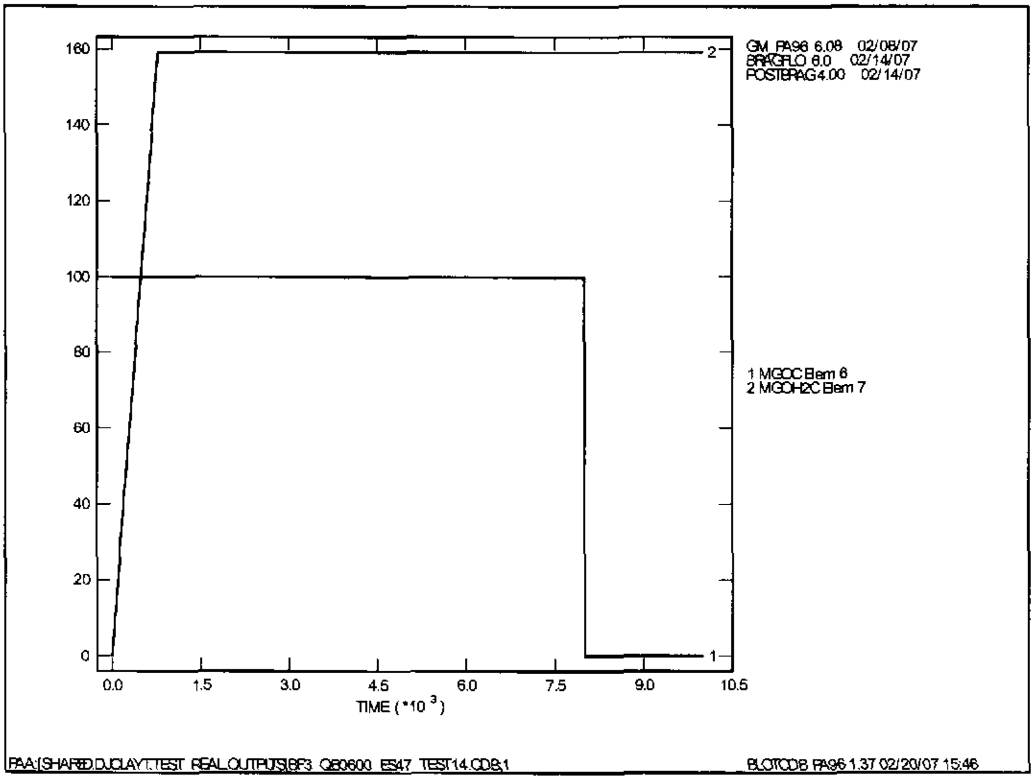


FIGURE 6.14.4 MgO concentration history for element 6 with $Mg(OH)_2$ concentration history for element 7.

6.14.4.3 Relative Permeability and Capillary Pressure Model

Test Case #14 tests the two new relative permeability and capillary pressure models: an open cavity model (KRP=11), and a modification of the KRP=4 model in which the saturation cutoff is accounted for and the residual brine saturation is modified for the capillary pressure model (KRP=12). Both of these models are explicit functions of saturation and are easily verified.

The open cavity model (KRP = 11) provides relative permeabilities and capillary pressures from the following:

$$k_{rw} = \begin{cases} 0 & S_w \le S_{wr} \\ (S_w - S_{wr})/TOL & S_{wr} < S_w \le S_{wr} + TOL \\ 1 & S_{wr} + TOL < S_w \end{cases} \tag{6.14.1}$$

$$k_{rg} = \begin{cases} 0 & 1 - S_w \le S_{gr} \\ (1 - S_w - S_{gr})/TOL & S_{gr} < 1 - S_w \le S_{gr} + TOL \\ 1 & S_{gr} + TOL < 1 - S_w \end{cases} \tag{6.14.2}$$

$$P_c = 0 \tag{6.14.3}$$

The residual brine saturation, S_{wr} = SBR, residual gas saturation, S_{gr} = SGR, and the tolerance, TOL = TOL are input parameters.

The gas pressure is obtained from the brine pressure, P_b, and the capillary pressure, P_c:

$$P_g = P_b + P_c. \tag{6.14.4}$$

The open cavity model (KRP = 11) is tested at t = 999 and 3.1557E+09 s in element 10 (grid block (3,1,1)), where the brine saturations and brine pressures are given in the BRAGFLO output file as follows:

S_w(999 s)	= 9.04027E-04	{line 25}
P_o(999 s)	= 5.17104E+05	{line 26}
S_w(3.1557E+09 s)	= 0.00000E+00	{line 27}
P_o(3.1557E+09 s)	= 1.42576E+06	{line 28}

The following parameters are read from the input file and echoed to the output file:

S_{wr}	= residual brine saturation	= 0.00E+00	{line 29}
S_{gr}	= residual gas saturation	= 0.00E+00	{line 30}
TOL	= tolerance	= 1.0000E-02	{line 31}

Calculating the wetting phase (brine) relative permeability from Equation 6.14.1 gives

k_{rw}(999 s)	= 9.04027E-02	{cell E32}
k_{rw}(3.1557E+09 s)	= 0.00000E+00	{cell E33}

This independent calculation of the brine phase relative permeabilities agrees with the values obtained from the file, BF3_QA0500_TEST6.CDB, {cell D32} (9.04027E-02) and the BRAGFLO output file {cell D33} (0.00000E+00).

Calculating the gas phase relative permeability from Equation 6.14.2 gives

k_{rg}(999 s)	= 1.00000E+00	{cell E34}
k_{rg}(3.1557E+09 s)	= 1.00000E+00	{cell E35}

This independent calculation of the gas phase relative permeabilities agrees with the values obtained from the file, BF3_QA0500_TEST6.CDB, {cell D34} (1.00000E+00) and the BRAGFLO output file {cell D35}(1.00000E+00).

Calculating the gas pressure from Equations 6.14.3 and 6.14.4 gives

P_g(999 s)	= 5.17104E+05	{cell E38}
P_g(3.1557E+09 s)	= 1.42576E+06	{cell E39}

This independent calculation of the gas pressure agrees with the values obtained from the file, BF3_QA0500_TEST6.CDB, {cell D38} (5.17104E+05) and the BRAGFLO output file {cell D39} (1.42576E+06).

The modification of the KRP = 4 model (KRP=12) gives relative permeabilities and capillary pressures from

$$k_{rw} = S_e^{(2+3\lambda)/\lambda} \tag{6.14.5}$$

$$k_{rg} = \left(1 - S_{eg}\right)^2 \left(1 - S_{eg}^{(2+\lambda)/\lambda}\right) \tag{6.14.6}$$

$$P_c = \frac{P_t}{S_{me}^{1/\lambda}}, \tag{6.14.7}$$

where the modified brine saturation is

$$S_e = \frac{S_w - S_{wr}}{1 - S_{wr}} \tag{6.14.8}$$

the modified gas saturation is

$$S_{eg} = \frac{S_w - S_{wr}}{1 - S_{gr} - S_{wr}} \tag{6.14.9}$$

and the modified effective brine saturation is

$$S_{me} = \frac{S_w - \left(S_{co} - S_{e\min}\right)}{1 - \left(S_{co} - S_{e\min}\right)}. \tag{6.14.10}$$

The parameters λ, S_{co} and S_{emin} are the input parameters XLAMDA, SOCMIN and SOCEFFMIN.

The P_t = threshold capillary pressure, which is correlated to permeability is calculated by:

$$P_t = ak^{\eta}, \tag{6.14.11}$$

The parameters in this correlation are input as a = PCT_A and η = PCT_EXP.

The KRP = 12 model is tested at t = 3.1557E+09 s in element 6 (grid block (2,1,1)), where the brine saturation, brine pressure and x-permeability are given in the BRAGFLO output file as follows:

S_w	= 4.86647E-03	{line 40}
P_o	= 1.37260E+06	{line 41}
k	= 5.27757E-13	{line 42}

The following parameters are read from the input file and echoed to the output file:

λ	= pore distribution parameter	= 2.89E+00	{line 43}
S_{wr}	= residual brine saturation	= 0.00E+00	{line 44}
S_{gr}	= residual gas saturation	= 0.00E+00	{line 45}
S_{co}	= cutoff brine saturation	= 1.50E-02	{line 46}
S_{emin}	= effective minimum brine saturation	= 1.00E-03	{line 47}
a	= threshold pressure constant	= 2.60E-01	{line 48}
η	= threshold pressure exponent	= -3.48E-01	{line 49}

Calculating the wetting phase (brine) relative permeability from Equations 6.14.5 and 6.14.8 gives

k_{rw}(3.1557E+09 s) = 2.89133E-09 {cell E51}

This independent calculation of the brine phase relative permeability agrees with the values obtained from the BRAGFLO output file {cell D51} (2.89134E-09).

Calculating the gas phase relative permeability from Equations 6.14.6 and 6.14.9 gives

k_{rg}(3.1557E+09 s) = 9.90170E-01 {cell E53}

This independent calculation of the gas phase relative permeability agrees with the values obtained from the BRAGFLO output file {cell D53} (9.90170E-01).

Calculating the gas pressure from Equations 6.14.4, 6.14.7 and 6.14.11 gives

P_g(3.1557E+09 s) = 1.42577E+06 {cell E57}

This independent calculation of the gas pressure agrees with the values obtained from the BRAGFLO output file {cell D57} (1.42576E+06).

The agreement between these calculations and the BRAGFLO output verifies that the two relative permeability models, KRP = 11 and KRP = 12, are being treated correctly in BRAGFLO, and verifies Functional Requirements R.8.

6.14.4.4 Saturation Dependent Chemistry Rates

For Test Case #14, the iron corrosion rate, cellulosics (CH_2O) microbial degradation rate and MgO hydration rate, q_{rc}, q_{rm} and q_{rh} (mol s^{-1}), are functions of the saturation and are proportional to the initial concentration of Fe, CH_2O, and MgO in each cell, C^0_{Fe}, C^0_{CH2O} and C^0_{MgO} (kg m^{-3}), respectively,

$$\begin{aligned} q_{rc} &= \left(r_{ci}S_{cw} + r_{ch}S_{ncw}\right)C^0_{\mathrm{Fe}}V \\ q_{rm} &= \left(r_{mi}S_{cw} + r_{mh}S_{ncw}\right)C^0_{\mathrm{CH2O}}V \\ q_{rh} &= \left(r_{hi}S_{cw} + r_{hh}S_{ncw}\right)C^0_{\mathrm{MgO}}V \end{aligned} \tag{6.14.12}$$

where

- r_{ci} is the intrinsic inundated iron corrosion rate (mol kg^{-1} s^{-1}),
- r_{ch} is the intrinsic humid iron corrosion rate (mol kg^{-1} s^{-1}),
- r_{mi} is the intrinsic inundated cellulosics microbial degradation rate (mol kg^{-1} s^{-1}),
- r_{mh} is the intrinsic humid cellulosics microbial degradation rate (mol kg^{-1} s^{-1}),
- r_{hi} is the intrinsic inundated MgO hydration rate (mol kg^{-1} s^{-1}),
- r_{hh} is the intrinsic humid MgO hydration rate (mol kg^{-1} s^{-1}),
- S_{cw} is the effective chemistry brine or wetting-phase saturation,
- S_{ncw} is the effective chemistry gas or non-wetting-phase saturation ($S_{ncw} = 1 - S_{cw}$),
- V is the volume of the grid cell (m^3).

In Test Case #14, the humid rates are set to zero, so equation 6.14.12 for the inundated condition reduces to

$$\begin{aligned} q_{rci} &= r_{ci}S_{cw}C^0_{\mathrm{Fe}}V \\ q_{rmi} &= r_{mi}S_{cw}C^0_{\mathrm{CH2O}}V \\ q_{rhi} &= r_{hi}S_{cw}C^0_{\mathrm{MgO}}V \end{aligned} \tag{6.14.13}$$

where

- q_{rci} is the iron corrosion rate under inundated conditions (mol Fe s^{-1}),
- q_{rmi} is the cellulosics microbial degradation rate under inundated conditions (mol CH_2O s^{-1}),
- q_{rhi} is the MgO hydration rate under inundated conditions (mol MgO s^{-1}).

The effective chemistry brine or wetting-phase saturation is calculated by taking the brine saturation in the cell, subtracting the cutoff saturation value and adding the smoothed wicking term

$$S_{cw} = S_w - S_{co} + W\left\{1 - \exp\left[-200\alpha\left(S_w - S_{co}\right)^2\right]\right\} \quad (6.14.14)$$

where

S_{co} is the brine or wetting-phase saturation cutoff value,
W is the wicking saturation,
α is the smoothing exponent.

The effective chemistry brine saturation is bounded to have a minimum value of 0.0 and a maximum value of 1.0, regardless of cutoff value and wicking saturation, while the term $S_w - S_{co}$ has a minimum value of 0.0.

The saturation dependent chemistry rates are tested at t = 3.1557E+09 s for elements 6, 7, 8 and 9 (grid blocks (2,1,1), (6,1,1), (10,1,1) and (14,1,1)), where the brine saturations, grid volumes and initial concentrations of Fe, CH_2O, and MgO are given in the BRAGFLO output file as follows:

S_w(Waste 1 @ 3.1557E+09 s)	= 4.86647E-03	{line 59}
S_w(Waste 2 @ 3.1557E+09 s)	= 8.26608E-01	{line 60}
S_w(Waste 3 @ 3.1557E+09 s)	= 9.78357E-01	{line 61}
S_w(Waste 4 @ 3.1557E+09 s)	= 9.92682E-01	{line 62}
V(Waste 1)	= 1.00000E+00 m^3	{line 64}
V(Waste 2)	= 1.00000E+00 m^3	{line 65}
V(Waste 3)	= 1.00000E+00 m^3	{line 66}
V(Waste 4)	= 1.00000E+00 m^3	{line 67}
C^0_{Fe} (Waste 1)	= 1.00000E+02 mol Fe m^{-3}	{line 68}
C^0_{Fe} (Waste 2)	= 0.00000E+00 mol Fe m^{-3}	{line 69}
C^0_{Fe} (Waste 3)	= 0.00000E+00 mol Fe m^{-3}	{line 70}
C^0_{Fe} (Waste 4)	= 1.10000E+02 mol Fe m^{-3}	{line 71}
C^0_{CH2O} (Waste 1)	= 5.00000E+01 mol CH_2O m^{-3}	{line 72}
C^0_{CH2O} (Waste 2)	= 0.00000E+00 mol CH_2O m^{-3}	{line 73}
C^0_{CH2O} (Waste 3)	= 4.50000E+01 mol CH_2O m^{-3}	{line 74}
C^0_{CH2O} (Waste 4)	= 5.50000E+01 mol CH_2O m^{-3}	{line 75}
C^0_{MgO} (Waste 1)	= 1.00000E+02 mol MgO m^{-3}	{line 76}

C^0_{MgO} (Waste 2)	= 1.10000E+02 mol MgO m^{-3}	{line 77}
C^0_{MgO} (Waste 3)	= 9.00000E+01 mol MgO m^{-3}	{line 78}
C^0_{MgO} (Waste 4)	= 0.00000E+00 mol MgO m^{-3}	{line 79}

The following parameters are read from the input file and echoed to the output file:

r_{ci}	= intrinsic inundated iron corrosion rate	= 3.00E-10 mol kg^{-1} s^{-1}	{line 80}
r_{mi}	= intrinsic inundated microbial degradation rate	= 2.00E-10 mol $kg^{-1}s^{-1}$	{line 81}
r_{ch}/r_{ci}	= ratio of humid to inundated iron corrosion rate	= 0.00E+00	{line 82}
r_{mh}/r_{mi}	= ratio of humid to inundated microbial degradation rate	= 0.00E+00	{line 83}
r_{hi}	= intrinsic inundated MgO hydration rate	= 1.00E-09 mol $kg^{-1}s^{-1}$	{line 84}
r_{hh}	= intrinsic humid MgO hydration rate	= 0.00E+00 mol $kg^{-1}s^{-1}$	{line 85}
S_{co}	= cutoff brine saturation	= 1.50E-02	{line 86}
W	= wicking saturation	= 1.00E+00	{line 87}
α	= smoothing exponent	= 1.00E+03	{line 88}

Calculating the effective chemistry brine saturations from Equations 6.14.14 and using these values in Equation 6.14.13 gives

q_{rci}(Waste 1 @ 3.1557E+09 s)	= 0.0000E+00 mol Fe s^{-1}	{cell E94}
q_{rci}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol Fe s^{-1}	{cell E95}
q_{rci}(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 mol Fe s^{-1}	{cell E96}
q_{rci}(Waste 4 @ 3.1557E+09 s)	= 3.3000E-08 mol Fe s^{-1}	{cell E97}
q_{rmi}(Waste 1 @ 3.1557E+09 s)	= 0.0000E+00 mol CH_2O s^{-1}	{cell E99}
q_{rmi}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol CH_2O s^{-1}	{cell E100}
q_{rmi}(Waste 3 @ 3.1557E+09 s)	= 9.0000E-09 mol CH_2O s^{-1}	{cell E101}
q_{rmi}(Waste 4 @ 3.1557E+09 s)	= 1.1000E-08 mol CH_2O s^{-1}	{cell E102}
q_{rhi}(Waste 1 @ 3.1557E+09 s)	= 0.0000E+00 mol MgO s^{-1}	{cell E104}
q_{rhi}(Waste 2 @ 3.1557E+09 s)	= 1.1000E-07 mol MgO s^{-1}	{cell E105}

q_{rhi}(Waste 3 @ 3.1557E+09 s)	= 9.0000E-08 mol MgO s^{-1}	{cell E106}
q_{rhi}(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 mol MgO s^{-1}	{cell E107}

This independent calculations of the saturation dependent chemistry rates agree within three to four significant digits with the values obtained from the BRAGFLO output file {cells D94-D97, D99-D102 and D104-D107} (0.00000E+00, 0.00000E+00, 0.00000E+00, 3.30000E-08, 0.00000E+00, 0.00000E+00, 9.00000E-09, 1.10000E-08, 0.00000E+00, 1.10000E-07, 9.00000E-08, 0.00000E+00).

As seen in the output file and independent calculations, the saturation dependent chemistry rates for element 6 are zero at 3.1557E+09 s, since the saturation in the cell is below the cutoff value (4.86646E-03 < 1.50000E-02). Furthermore, the iron corrosion rates for elements 7 and 8, the microbial degradation rate for element 7 and the MgO hydration rate for element 9 are all zero, since these areas are given a zero initial concentration. The saturation of element 6 remains below the cutoff value until 7.64216E+10 s. Using the saturation for element 6 (grid block (2,1,1)) at a later time (t = 9.4673E+10 s) for element 6 as follows

S_w(Waste 1 @ 9.4673E+10 s)	= 1.50339E-02	{line 63}

and calculating the effective chemistry brine saturation from Equations 6.14.14 and using the value in Equation 6.14.13 gives

q_{rci}(Waste 1 @ 9.4673E+10 s)	= 7.9115E-12 mol Fe s^{-1}	{cell E98}
q_{rmi}(Waste 1 @ 9.4673E+10 s)	= 2.6372E-12 mol CH_2O s^{-1}	{cell E103}
q_{rhi}(Waste 1 @ 9.4673E+10 s)	= 2.6372E-11 mol MgO s^{-1}	{cell E108}

This independent calculation of the saturation dependent chemistry rates agrees within three to four significant digits with the values obtained from the BRAGFLO output file {cells D98, D103 and D108} (7.91196E-12, 2.63732E-12, 2.63732E-11).

The agreement between these calculations and the BRAGFLO output verifies that the saturation dependent chemistry rates are being treated correctly in BRAGFLO, and verifies Functional Requirements R.20, R.21, and R.22.

6.14.4.5 Cellulosics Microbial Degradation Dependent Chemistry Rates

The sulfidation and carbonation rates are proportional to the cellulosics microbial degradation rate, q_{rm}.

$$
\begin{aligned}
q_{rsulf} &= s_{sulf} q_{rm} \\
q_{rcarb} &= s_{carb} q_{rm}
\end{aligned}
\tag{6.14.15}
$$

where

q_{rsulf} = the sulfidation rate (mol H_2S s^{-1}),
q_{rcarb} = the carbonation rate (mol CO_2 s^{-1}),
s_{sulf} = the stoichiometric coefficient for H_2S in the cellulosics microbial degradation reaction (mol H_2S/mol CH_2O),
s_{carb} = the stoichiometric coefficient for CO_2 in the cellulosics microbial degradation reaction (mol CO_2/mol CH_2O).

The sulfidation and carbonation is assumed to preferentially react with the $Fe(OH)_2$ and $Mg(OH)_2$ before the Fe and MgO, respectively. The sulfidation and carbonation reactions of Fe and MgO, are added for the case when the cellulosics microbial degradation rate is much faster than the iron corrosion and MgO hydration reactions, respectively. The transition from $Fe(OH)_2$ and $Mg(OH)_2$ to Fe and MgO reacting is smoothed by the following equations, based on the ratio of current $Fe(OH)_2$ and $Mg(OH)_2$ concentrations, C_{FeOH2} and C_{MgOH2}, respectively and the initial concentrations.

$$
\begin{aligned}
q_{rsulf\_FeOH2} &= q_{rsulf}\left[1-\exp\left(-\alpha\frac{\mathrm{C_{FeOH2}}}{\mathrm{C^0_{Fe}}}\right)\right] \\
q_{rsulf\_Fe} &= q_{rsulf} - q_{rsulf\_FeOH2} \\
q_{rcarb\_MgOH2} &= q_{rcarb}\left[1-\exp\left(-\alpha\frac{\mathrm{C_{MgOH2}}}{\mathrm{C^0_{MgO}}}\right)\right] \\
q_{rcarb\_MgO} &= q_{rcarb} - q_{rcarb\_MgOH2}
\end{aligned}
\qquad (6.14.16)
$$

where

q_{rsulf_FeOH2} = the iron hydroxide sulfidation rate (mol H_2S s^{-1}),
q_{rsulf_Fe} = the iron sulfidation rate (mol H_2S s^{-1}),
q_{rcarb_MgOH2} = the $MgOH_2$ carbonation rate (mol CO_2 s^{-1}),
q_{rcarb_MgO} = the MgO carbonation rate (mol CO_2 s^{-1})
q_{rsulf} = calculated in Equation 6.14.15,
q_{rcarb} = calculated in Equation 6.14.15.

When the Fe and $Fe(OH)_2$ concentrations are zero, the sulfidation rates are both zero, while when the MgO and $Mg(OH)_2$ concentrations are zero, the carbonation rates are both zero.

The cellulosics microbial degradation dependent chemistry rates are tested at t = 3.1557E+09 s for elements 7, 8 and 9 (grid blocks (6,1,1), (10,1,1) and (14,1,1)), where the microbial degradation rates and Fe, $Fe(OH)_2$, MgO and $Mg(OH)_2$ concentrations are given in the BRAGFLO output file as follows:

q_{rmi}(Waste 2 @ 3.1557E+09 s) = 0.00000E+00 mol CH_2O s^{-1} {cell D100}

q_{rmi}(Waste 3 @ 3.1557E+09 s) = 9.00000E-09 mol CH_2O s^{-1} {cell D101}

q_{rmi}(Waste 4 @ 3.1557E+09 s) = 1.10000E-08 mol CH_2O s^{-1} {cell D102}

C_{Fe} (Waste 2 @ 3.1557E+09 s) = 0.00000E+00 kg Fe m^{-3} {line 110}

C_{Fe} (Waste 3 @ 3.1557E+09 s) = 0.00000E+00 kg Fe m^{-3} {line 111}

C_{Fe} (Waste 4 @ 3.1557E+09 s) = 1.04170E+02 kg Fe m^{-3} {line 112}

C_{FeOH2} (Waste 2 @ 3.1557E+09 s) = 0.00000E+00 kg $Fe(OH)_2$ m^{-3} {line 113}

C_{FeOH2} (Waste 3 @ 3.1557E+09 s) = 0.00000E+00 kg $Fe(OH)_2$ m^{-3} {line 114}

C_{FeOH2} (Waste 4 @ 3.1557E+09 s) = 7.82065E+00 kg $Fe(OH)_2$ m^{-3} {line 115}

C_{MgO} (Waste 2 @ 3.1557E+09 s) = 9.60093E+01 kg MgO m^{-3} {line 116}

C_{MgO} (Waste 3 @ 3.1557E+09 s) = 7.85457E+01 kg MgO m^{-3} {line 117}

C_{MgO} (Waste 4 @ 3.1557E+09 s) = 0.00000E+00 kg MgO m^{-3} {line 118}

C_{MgOH2} (Waste 2 @ 3.1557E+09 s) = 2.02443E+01 kg $Mg(OH)_2$ m^{-3} {line 119}

C_{MgOH2} (Waste 3 @ 3.1557E+09 s) = 1.49177E+01 kg $Mg(OH)_2$ m^{-3} {line 120}

C_{MgOH2} (Waste 4 @ 3.1557E+09 s) = 0.00000E+00 kg $Mg(OH)_2$ m^{-3} {line 121}

The following parameters are read from the input file and echoed to the output file:

$s_{sulf}(1)$ = H_2S stoichiometric coefficient (1) = 5.00E-01 {line 122}

$s_{sulf}(2)$ = H_2S stoichiometric coefficient (2) = 5.00E-01 {line 123}

$s_{carb}(1)$ = CO_2 stoichiometric coefficient (1) = 1.00E+00 {line 124}

$s_{carb}(2)$ = CO_2 stoichiometric coefficient (2) = 1.00E+00 {line 125}

Calculating the sulfidation and carbonation rates from Equations 6.14.15 and using these values in Equation 6.14.16 gives

q_{rsulf_FeOH2}(Waste 2 @ 3.1557E+09 s) = 0.0000E+00 mol H_2S s^{-1} {cell E132}

q_{rsulf_FeOH2}(Waste 3 @ 3.1557E+09 s) = 0.0000E+00 mol H_2S s^{-1} {cell E133}

q_{rsulf_FeOH2}(Waste 4 @ 3.1557E+09 s) = 5.5000E-09 mol H_2S s^{-1} {cell E134}

q_{rsulf_Fe}(Waste 2 @ 3.1557E+09 s) = 0.0000E+00 mol H_2S s^{-1} {cell E135}

q_{rsulf_Fe}(Waste 3 @ 3.1557E+09 s) = 0.0000E+00 mol H_2S s^{-1} {cell E136}

q_{rsulf_Fe}(Waste 4 @ 3.1557E+09 s) = 0.0000E+00 mol H_2S s^{-1} {cell E137}

q_{rcarb_MgOH2}(Waste 2 @ 3.1557E+09 s) = 0.0000E+00 mol CO_2 s^{-1} {cell E138}

q_{rcarb_MgOH2}(Waste 3 @ 3.1557E+09 s) = 9.0000E-09 mol CO_2 s^{-1} {cell E139}

q_{rcarb_MgOH2}(Waste 4 @ 3.1557E+09 s) = 0.0000E+00 mol CO_2 s^{-1} {cell E140}

q_{rcarb_MgO}(Waste 2 @ 3.1557E+09 s) = 0.0000E+00 mol CO_2 s^{-1} {cell E141}

q_{rcarb_MgO}(Waste 3 @ 3.1557E+09 s) = 0.0000E+00 mol CO_2 s^{-1} {cell E142}

q_{rcarb_MgO}(Waste 4 @ 3.1557E+09 s) = 0.0000E+00 mol CO_2 s^{-1} {cell E143}

This independent calculations of the cellulosics microbial degradation dependent chemistry rates agree within three to four significant digits with the values obtained from the BRAGFLO output file {cells D132-D143} (0.00000E+00, 0.00000E+00, 5.50000E-09, 0.00000E+00, 0.00000E+00, 7.18117E-39, 0.00000E+00, 9.00000E-09, 0.00000E+00, 0.00000E+00, 1.94227E-78, 0.00000E+00). The values of 7.18117E-39 and 1.94227E-78 are calculated as 0.00000E+00 which is well below the numerical precision of both the BRAGFLO and Excel, therefore this difference is acceptable.

As seen in the output file and the independent calculations, the cellulosics microbial degradation dependent chemistry rates for element 7 are zero, since the microbial degradation rate is zero. Furthermore, the sulfidation rates for element 8 and the carbonation rates for element 9 are zero, since there is no Fe or MgO present, respectively.

The agreement between these calculations and the BRAGFLO output verifies that the cellulosics microbial degradation dependent chemistry rates are being treated correctly in BRAGFLO, and verifies Functional Requirements R.20, R.21, and R.22.

6.14.4.6 Additional Chemistry Tests

Additional quantities related to the chemistry rates (Table 6.14.2) can be tested if desired, using the stoichiometric factors listed in Table 6.14.3.

TABLE 6.14.2 Additional Chemistry Rates in Test Case #14.

Variable Name	Description	Units
H2RATE	H_2 generation rate–simple model	kg/(s·m^3)
BRINRATE	Brine consumption rate–simple model	kg/(s·m^3)
FERATE	Fe consumption rate–simple model	kg/(s·m^3)
CELLRATE	Biodegrad consumption rate–simple model	kg/(s·m^3)
FEOH2R	$Fe(OH)_2$ generation rate–simple model	kg/(s·m^3)
FESR	FeS generation rate–simple model	kg/(s·m^3)
MGOR	MgO generation rate–simple model	kg/(s·m^3)
MGOH2R	$Mg(OH)_2$ generation rate–simple model	kg/(s·m^3)
MGCO3R	$MgCO_3$ generation rate–simple model	kg/(s·m^3)

TABLE 6.14.3 Test Case #14 Stoichiometric Coefficients.

Rxn #	1	2	3	4	5	6	7
Variable	CORRATI	BIORATI	FEOH2_SR	FE_SR	MGO_HR	MGOH2_CR	MGO_CR
H2RATE	1	0.5	0	0	0	0	0
BRINRATE	-2	0	2	0	-1	1	0
FERATE	-1	0	0	-1	0	0	0
CELLRATE	0	-1	0	0	0	0	0
FEOH2R	1	0	-1	0	0	0	0
FESR	0	0	1	1	0	0	0
MGOR	0	0	0	0	-1	0	-1
MGOH2R	0	0	0	0	1	-1	0
MGCO3R	0	0	0	0	0	1	1

The additional chemistry rates in the first column of Table 6.14.3 can be calculated by multiplying the rates listed in row 2 of Table 6.14.3 by the corresponding stoichiometric coefficients in the table. For example, the calculation the variable FESR would be one times FEOH2_SR plus one times FE_SR. Because the consumption rates are reported in kg m^{-3} s^{-1}, the molecular weight of each species, which should be found in the output file, are also needed for comparison. For this example the variable FESR, would be multiplied by the molecular weight of FeS.

The brine consumption rate (BRINRATE) will be multiplied by the molecular weight of brine, which is calculated from the salinity of the brine, m_s, in weight percent salt and the molecular weight of H_2O, M_{w,H_2O}, which should be obtained from the output file, where it is echoed from the input:

$$m_s \quad = \text{SALT} \quad = 29.6 \text{ wt \%}.$$

To get the brine consumption rate, it is multiplied by the effective brine molecular weight, $M_{w,brine}$:

$$MW_{brine} = \frac{MW_{H_2O}}{1 - \dfrac{m_s}{100}} \tag{6.14.17}$$

The addtional chemistry rates are tested at t = 3.1557E+09 s for elements 7, 8 and 9 (grid blocks (6,1,1), (10,1,1) and (14,1,1)), where the iron corrosion rates, microbial degradation rates, Fe and $Fe(OH)_2$ sulfidation rates, MgO hydration rates and MgO and $Mg(OH)_2$ carbonation rates are given in the BRAGFLO output file as follows:

q_{rci}(Waste 2 @ 3.1557E+09 s) = 0.0000E+00 mol Fe s^{-1} {cell D95}

q_{rci}(Waste 3 @ 3.1557E+09 s) = 0.0000E+00 mol Fe s^{-1} {cell D96}

q_{rci}(Waste 4 @ 3.1557E+09 s)	= 3.3000E-08 mol Fe s^{-1}	{cell D97}
q_{rmi}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol CH_2O s^{-1}	{cell D100}
q_{rmi}(Waste 3 @ 3.1557E+09 s)	= 9.0000E-09 mol CH_2O s^{-1}	{cell D101}
q_{rmi}(Waste 4 @ 3.1557E+09 s)	= 1.1000E-08 mol CH_2O s^{-1}	{cell D102}
q_{rsulf_Fe}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol H_2S s^{-1}	{cell D135}
q_{rsulf_Fe}(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 mol H_2S s^{-1}	{cell D136}
q_{rsulf_Fe}(Waste 4 @ 3.1557E+09 s)	= 7.8117E-39 mol H_2S s^{-1}	{cell D137}
q_{rsulf_FeOH2}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol H_2S s^{-1}	{cell D132}
q_{rsulf_FeOH2}(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 mol H_2S s^{-1}	{cell D133}
q_{rsulf_FeOH2}(Waste 4 @ 3.1557E+09 s)	= 5.5000E-09 mol H_2S s^{-1}	{cell D134}
q_{rhi}(Waste 2 @ 3.1557E+09 s)	= 1.1000E-07 mol MgO s^{-1}	{cell D105}
q_{rhi}(Waste 3 @ 3.1557E+09 s)	= 9.0000E-08 mol MgO s^{-1}	{cell D106}
q_{rhi}(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 mol MgO s^{-1}	{cell D107}
q_{rcarb_MgO}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol CO_2 s^{-1}	{cell D141}
q_{rcarb_MgO}(Waste 3 @ 3.1557E+09 s)	= 1.94227E-78 mol CO_2 s^{-1}	{cell D142}
q_{rcarb_MgO}(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 mol CO_2 s^{-1}	{cell D143}
q_{rcarb_MgOH2}(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 mol CO_2 s^{-1}	{cell D138}
q_{rcarb_MgOH2}(Waste 3 @ 3.1557E+09 s)	= 9.0000E-09 mol CO_2 s^{-1}	{cell D139}
q_{rcarb_MgOH2}(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 mol CO_2 s^{-1}	{cell D140}

The following parameters are read from the input file and echoed to the output file:

$S_{1,1}$ = H_2 reaction 1 coefficient	= 1.00E+00 mol H_2/mol Fe	{line 145}
$S_{1,2}$ = H_2O reaction 1coefficient	= -2.00E+00 mol H_2O /mol Fe	{line 146}
$S_{1,3}$ = Fe reaction 1 coefficient	= -1.00E+00 mol Fe/mol Fe	{line 147}
$S_{1,4}$ = CH_2O reaction 1 coefficient	= 0.00E+00 mol CH_2O/mol Fe	{line 148}
$S_{1,5}$ = $Fe(OH)_2$ reaction 1 coefficient	= 1.00E+00 mol $Fe(OH)_2$/mol Fe	{line 149}
$S_{1,6}$ = FeS reaction 1 coefficient	= 0.00E+00 mol FeS/mol Fe	{line 150}
$S_{1,7}$ = MgO reaction 1 coefficient	= 0.00E+00 mol MgO/mol Fe	{line 151}
$S_{1,8}$ = $Mg(OH)_2$ reaction 1 coefficient	= 0.00E+00 mol $Mg(OH)_2$/mol Fe	{line 152}
$S_{1,9}$ = $MgCO_3$ reaction 1 coefficient	= 0.00E+00 mol $MgCO_3$/mol Fe	{line 153}

$S_{2,1}$	= H_2 reaction 2 coefficient	= 0.00E+00 mol H_2/mol CH_2O	{line 154}
$S_{2,2}$	= H_2O reaction 2 coefficient	= 0.00E+00 mol H_2O /mol CH_2O	{line 155}
$S_{2,3}$	= Fe reaction 2 coefficient	= 0.00E+00 mol Fe/mol CH_2O	{line 156}
$S_{2,4}$	= CH_2O reaction 2 coefficient	= -1.00E+00 mol CH_2O/mol CH_2O	{line 157}
$S_{2,5}$	= $Fe(OH)_2$ reaction 2 coefficient	= 0.00E+00 mol $Fe(OH)_2$/mol CH_2O	{line 158}
$S_{2,6}$	= FeS reaction 2 coefficient	= 0.00E+00 mol FeS/mol CH_2O	{line 159}
$S_{2,7}$	= MgO reaction 2 coefficient	= 0.00E+00 mol MgO/mol CH_2O	{line 160}
$S_{2,8}$	= $Mg(OH)_2$ reaction 2 coefficient	= 0.00E+00 mol $Mg(OH)_2$/mol CH_2O	{line 161}
$S_{2,9}$	= $MgCO_3$ reaction 2 coefficient	= 0.00E+00 mol $MgCO_3$/mol CH_2O	{line 162}
$S_{3,1}$	= H_2 reaction 3 coefficient	= 0.00E+00 mol H_2/mol $Fe(OH)_2$	{line 163}
$S_{3,2}$	= H_2O reaction 3 coefficient	= 2.00E+00 mol H_2O /mol $Fe(OH)_2$	{line 164}
$S_{3,3}$	= Fe reaction 3 coefficient	= 0.00E+00 mol Fe/mol $Fe(OH)_2$	{line 165}
$S_{3,4}$	= CH_2O reaction 3 coefficient	= 0.00E+00 mol CH_2O/mol $Fe(OH)_2$	{line 166}
$S_{3,5}$	= $Fe(OH)_2$ reaction 3 coefficient	= -1.00E+00 mol $Fe(OH)_2$/mol $Fe(OH)_2$	{line 167}
$S_{3,6}$	= FeS reaction 3 coefficient	= 1.00E+00 mol FeS/mol $Fe(OH)_2$	{line 168}
$S_{3,7}$	= MgO reaction 3 coefficient	= 0.00E+00 mol MgO/mol $Fe(OH)_2$	{line 169}
$S_{3,8}$	= $Mg(OH)_2$ reaction 3 coefficient	= 0.00E+00 mol $Mg(OH)_2$/mol $Fe(OH)_2$	{line 170}
$S_{3,9}$	= $MgCO_3$ reaction 3 coefficient	= 0.00E+00 mol $MgCO_3$/mol $Fe(OH)_2$	{line 171}
$S_{4,1}$	= H_2 reaction 4 coefficient	= 0.00E+00 mol H_2/mol Fe	{line 172}
$S_{4,2}$	= H_2O reaction 4 coefficient	= 0.00E+00 mol H_2O /mol Fe	{line 173}
$S_{4,3}$	= Fe reaction 4 coefficient	= -1.00E+00 mol Fe/mol Fe	{line 174}
$S_{4,4}$	= CH_2O reaction 4 coefficient	= 0.00E+00 mol CH_2O/mol Fe	{line 175}
$S_{4,5}$	= $Fe(OH)_2$ reaction 4 coefficient	= 0.00E+00 mol $Fe(OH)_2$/mol Fe	{line 176}
$S_{4,6}$	= FeS reaction 4 coefficient	= 1.00E+00 mol FeS/mol Fe	{line 177}
$S_{4,7}$	= MgO reaction 4 coefficient	= 0.00E+00 mol MgO/mol Fe	{line 178}
$S_{4,8}$	= $Mg(OH)_2$ reaction 4 coefficient	= 0.00E+00 mol $Mg(OH)_2$/mol Fe	{line 179}
$S_{4,9}$	= $MgCO_3$ reaction 4 coefficient	= 0.00E+00 mol $MgCO_3$/mol Fe	{line 180}
$S_{5,1}$	= H_2 reaction 5 coefficient	= 0.00E+00 mol H_2/mol MgO	{line 181}
$S_{5,2}$	= H_2O reaction 5 coefficient	= -1.00E+00 mol H_2O /mol MgO	{line 182}
$S_{5,3}$	= Fe reaction 5 coefficient	= 0.00E+00 mol Fe/mol MgO	{line 183}

$S_{5,4}$ = CH_2O reaction 5 coefficient = 0.00E+00 mol CH_2O/mol MgO {line 184}

$S_{5,5}$ = $Fe(OH)_2$ reaction 5 coefficient = 0.00E+00 mol $Fe(OH)_2$/mol MgO {line 185}

$S_{5,6}$ = FeS reaction 5 coefficient = 0.00E+00 mol FeS/mol MgO {line 186}

$S_{5,7}$ = MgO reaction 5 coefficient = -1.00E+00 mol MgO/mol MgO {line 187}

$S_{5,8}$ = $Mg(OH)_2$ reaction 5 coefficient = 1.00E+00 mol $Mg(OH)_2$/mol MgO {line 188}

$S_{5,9}$ = $MgCO_3$ reaction 5 coefficient = 0.00E+00 mol $MgCO_3$/mol MgO {line 189}

$S_{6,1}$ = H_2 reaction 6 coefficient = 0.00E+00 mol H_2/mol $Mg(OH)_2$ {line 190}

$S_{6,2}$ = H_2O reaction 6 coefficient = 1.00E+00 mol H_2O /mol $Mg(OH)_2$ {line 191}

$S_{6,3}$ = Fe reaction 6 coefficient = 0.00E+00 mol Fe/mol $Mg(OH)_2$ {line 192}

$S_{6,4}$ = CH_2O reaction 6 coefficient = 0.00E+00 mol CH_2O/mol $Mg(OH)_2$ {line 193}

$S_{6,5}$ = $Fe(OH)_2$ reaction 6 coefficient= 0.00E+00 mol $Fe(OH)_2$/mol $Mg(OH)_2$ {line 194}

$S_{6,6}$ = FeS reaction 6 coefficient = 0.00E+00 mol FeS/mol $Mg(OH)_2$ {line 195}

$S_{6,7}$ = MgO reaction 6 coefficient = 0.00E+00 mol MgO/mol $Mg(OH)_2$ {line 196}

$S_{6,8}$= $Mg(OH)_2$ reaction 6 coefficient= -1.00E+00 mol $Mg(OH)_2$/mol $Mg(OH)_2$ {line 197}

$S_{6,9}$ = $MgCO_3$ reaction 6 coefficient= 1.00E+00 mol $MgCO_3$/mol $Mg(OH)_2$ {line 198}

$S_{7,1}$ = H_2 reaction 7 coefficient = 0.00E+00 mol H_2/mol MgO {line 199}

$S_{7,2}$ = H_2O reaction 7 coefficient = 0.00E+00 mol H_2O /mol MgO {line 200}

$S_{7,3}$ = Fe reaction 7 coefficient = 0.00E+00 mol Fe/mol MgO {line 201}

$S_{7,4}$ = CH_2O reaction 7 coefficient = 0.00E+00 mol CH_2O/mol MgO {line 202}

$S_{7,5}$ = $Fe(OH)_2$ reaction 7 coefficient = 0.00E+00 mol $Fe(OH)_2$/mol MgO {line 203}

$S_{7,6}$ = FeS reaction 7 coefficient = 0.00E+00 mol FeS/mol MgO {line 204}

$S_{7,7}$ = MgO reaction 7 coefficient = -1.00E+00 mol MgO/mol MgO {line 205}

$S_{7,8}$ = $Mg(OH)_2$ reaction 7 coefficient = 0.00E+00 mol $Mg(OH)_2$/mol MgO {line 206}

$S_{7,9}$ = $MgCO_3$ reaction 7 coefficient = 1.00E+00 mol $MgCO_3$/mol MgO {line 207}

MW_{H2} = H_2 molecular weight = 2.0159E-03 kg/mol {line 208}

MW_{H2O} = H_2O molecular weight = 1.8015E-02 kg/mol {line 209}

MW_{Fe} = Fe molecular weight = 5.5847E-02 kg/mol {line 210}

MW_{CH2O} = CH_2O molecular weight = 2.7023E-02 kg/mol {line 211}

MW_{FeOH2} = $Fe(OH)_2$ molecular weight = 8.9862E-02 kg/mol {line 212}

MW_{FeS} = FeS molecular weight = 8.7900E-02 kg/mol {line 213}

MW_{MgO}	= MgO molecular weight	= 4.0304E-02 kg/mol	{line 214}
MW_{MgOH2}	= $Mg(OH)_2$ molecular weight	= 5.8320E-02 kg/mol	{line 215}
MW_{MgCO3}	= $MgCO_3$ molecular weight	= 8.4314E-02 kg/mol	{line 216}
m_s	= Brine salinity	= 3.2400E+01 %	{line 217}

Calculating the additional chemistry rates from the iron corrosion rates, microbial degradation rates, Fe and $Fe(OH)_2$ sulfidation rates, MgO hydration rates and MgO and $Mg(OH)_2$ carbonation rates and using the stoichiometric coefficients gives

H2RATE(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg H_2 s^{-1}	{cell E219}
H2RATE(Waste 3 @ 3.1557E+09 s)	= 9.0716E-12 kg H_2 s^{-1}	{cell E220}
H2RATE(Waste 4 @ 3.1557E+09 s)	= 7.7612E-11 kg H_2 s^{-1}	{cell E221}
BRINRATE(Waste 2 @ 3.1557E+09 s)	= -2.9314E-09 kg Brine s^{-1}	{cell E222}
BRINRATE(Waste 3 @ 3.1557E+09 s)	= -2.1586E-09 kg Brine s^{-1}	{cell E223}
BRINRATE(Waste 4 @ 3.1557E+09 s)	= -1.4657E-09 kg Brine s^{-1}	{cell E224}
FERATE(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg Fe s^{-1}	{cell E225}
FERATE(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 kg Fe s^{-1}	{cell E226}
FERATE(Waste 4 @ 3.1557E+09 s)	= -1.8430E-09 kg Fe s^{-1}	{cell E227}
CELLRATE(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg CH_2O s^{-1}	{cell E228}
CELLRATE(Waste 3 @ 3.1557E+09 s)	= -2.4321E-10 kg CH_2O s^{-1}	{cell E229}
CELLRATE(Waste 4 @ 3.1557E+09 s)	= -2.9725E-10 kg CH_2O s^{-1}	{cell E230}
FEOH2R(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg $Fe(OH)_2$ s^{-1}	{cell E231}
FEOH2R(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 kg $Fe(OH)_2$ s^{-1}	{cell E232}
FEOH2R(Waste 4 @ 3.1557E+09 s)	= 2.4712E-09 kg $Fe(OH)_2$ s^{-1}	{cell E233}
FESR(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg FeS s^{-1}	{cell E234}
FESR(Waste 3 @ 3.1557E+09 s)	= 0.0000E+00 kg FeS s^{-1}	{cell E235}
FESR(Waste 4 @ 3.1557E+09 s)	= 4.8345E-10 kg FeS s^{-1}	{cell E236}
MGOR(Waste 2 @ 3.1557E+09 s)	= -4.4335E-09 kg MgO s^{-1}	{cell E237}
MGOR(Waste 3 @ 3.1557E+09 s)	= -3.6274E-09 kg MgO s^{-1}	{cell E238}
MGOR(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 kg MgO s^{-1}	{cell E239}
MGOH2R(Waste 2 @ 3.1557E+09 s)	= 6.4152E-09 kg $Mg(OH)_2$ s^{-1}	{cell E240}
MGOH2R(Waste 3 @ 3.1557E+09 s)	= 4.7239E-09 kg $Mg(OH)_2$ s^{-1}	{cell E241}

MGOH2R(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 kg $Mg(OH)_2$ s^{-1}	{cell E242}
MGCO3R(Waste 2 @ 3.1557E+09 s)	= 0.0000E+00 kg $MgCO_3$ s^{-1}	{cell E243}
MGCO3R(Waste 3 @ 3.1557E+09 s)	= 7.5883E-10 kg $MgCO_3$ s^{-1}	{cell E244}
MGCO3R(Waste 4 @ 3.1557E+09 s)	= 0.0000E+00 kg $MgCO_3$ s^{-1}	{cell E245}

This independent calculations of the cellulosics microbial degradation dependent chemistry rates agree within three to four significant digits with the values obtained from the BRAGFLO output file {cells D219-D245} (0.00000E+00, 9.07155E-12, 7.76122E-11, -2.93143E-09, -2.15860E-09, -1.46572E-09, 0.00000E+00, 0.00000E+00, -1.84295E-09, 0.00000E+00, -2.43207E-10, -2.97253E-10, 0.00000E+00, 0.00000E+00, 2.47120E-09, 0.00000E+00, 0.00000E+00, 4.83450E-10, -4.43348E-09, -3.62740E-09, 0.00000E+00, 6.41516E-09, 4.72389E-09, 0.00000E+00, 0.00000E+00, 7.58828E-10, 0.00000E+00).

The agreement between these calculations and the BRAGFLO output verifies that the additional chemistry rates are being treated correctly in BRAGFLO, and verifies Functional Requirements R.20, R.21, and R.22.

6.14.4.7 Solids Production

As the chemical reactions occur, different chemical species with varying densities are produced, changing the volume of the solids. The total change in the volume of solids, ΔV_s (m^3 solid/m^3 grid), can be calculated by:

$$\Delta V_s = \sum_i \Delta V_{si} \tag{6.14.18}$$

where the volume change for species i, ΔV_{si} (m^3 species i/m^3 grid), is:

$$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i} \tag{6.14.19}$$

where

C_i = the concentration of species i (kg species i/m^3 grid),
C_i^0 = the initial concentration of species i (kg species i/m^3 grid),
ρ_i = the density of species i (kg species i/ m^3 species i).

The solid production model is tested at t = 3.1557E+09 s for elements 7, 8 and 9 (grid blocks (6,1,1), (10,1,1) and (14,1,1)), where the CH_2O, Fe, $Fe(OH)_2$, FeS, MgO, $Mg(OH)_2$, $MgCO_3$ and salt, current and initial concentrations are given in the BRAGFLO output file as follows:

C_{CH2O} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg CH_2O m^{-3}	{line 247}
C_{CH2O} (Waste 3 @ 3.1557E+09 s)	= 4.42325E+01 kg CH_2O m^{-3}	{line 248}
C_{CH2O} (Waste 4 @ 3.1557E+09 s)	= 5.40620E+01 kg CH_2O m^{-3}	{line 249}
C_{Fe} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m^{-3}	{line 250}
C_{Fe} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg Fe m^{-3}	{line 251}
C_{Fe} (Waste 4 @ 3.1557E+09 s)	= 1.04170E+02 kg Fe m^{-3}	{line 252}
C_{FeOH2} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg $Fe(OH)_2$ m^{-3}	{line 253}
C_{FeOH2} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg $Fe(OH)_2$ m^{-3}	{line 254}
C_{FeOH2} (Waste 4 @ 3.1557E+09 s)	= 7.82065E+00 kg $Fe(OH)_2$ m^{-3}	{line 255}
C_{FeS} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg FeS m^{-3}	{line 256}
C_{FeS} (Waste 3 @ 3.1557E+09 s)	= 0.00000E+00 kg FeS m^{-3}	{line 257}
C_{FeS} (Waste 4 @ 3.1557E+09 s)	= 1.52562E+00 kg FeS m^{-3}	{line 258}
C_{MgO} (Waste 2 @ 3.1557E+09 s)	= 9.60093E+01 kg MgO m^{-3}	{line 259}
C_{MgO} (Waste 3 @ 3.1557E+09 s)	= 7.85457E+01 kg MgO m^{-3}	{line 260}
C_{MgO} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg MgO m^{-3}	{line 261}
C_{MgOH2} (Waste 2 @ 3.1557E+09 s)	= 2.02443E+01 kg $Mg(OH)_2$ m^{-3}	{line 262}
C_{MgOH2} (Waste 3 @ 3.1557E+09 s)	= 1.49177E+01 kg $Mg(OH)_2$ m^{-3}	{line 263}
C_{MgOH2} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg $Mg(OH)_2$ m^{-3}	{line 264}
C_{MgCO3} (Waste 2 @ 3.1557E+09 s)	= 0.00000E+00 kg $MgCO_3$ m^{-3}	{line 265}
C_{MgCO3} (Waste 3 @ 3.1557E+09 s)	= 2.39463E+00 kg $MgCO_3$ m^{-3}	{line 266}
C_{MgCO3} (Waste 4 @ 3.1557E+09 s)	= 0.00000E+00 kg $MgCO_3$ m^{-3}	{line 267}
C_{Salt} (Waste 2 @ 3.1557E+09 s)	= 2.99724E+00 kg Salt m^{-3}	{line 268}
C_{Salt} (Waste 3 @ 3.1557E+09 s)	= 2.20862E+00 kg Salt m^{-3}	{line 269}
C_{Salt} (Waste 4 @ 3.1557E+09 s)	= 1.50290E+00 kg Salt m^{-3}	{line 270}
C^0_{CH2O} (Waste 2)	= 0.00000E+00 kg CH_2O m^{-3}	{line 271}

C^0_{CH2O} (Waste 3)	= 4.50000E+01 kg CH_2O m^{-3}	{line 272}
C^0_{CH2O} (Waste 4)	= 5.50000E+01 kg CH_2O m^{-3}	{line 273}
C^0_{Fe} (Waste 2)	= 0.00000E+00 kg Fe m^{-3}	{line 274}
C^0_{Fe} (Waste 3)	= 0.00000E+00 kg Fe m^{-3}	{line 275}
C^0_{Fe} (Waste 4)	= 1.10000E+02 kg Fe m^{-3}	{line 276}
C^0_{FeOH2} (Waste 2)	= 0.00000E+00 kg $Fe(OH)_2$ m^{-3}	{line 277}
C^0_{FeOH2} (Waste 3)	= 0.00000E+00 kg $Fe(OH)_2$ m^{-3}	{line 278}
C^0_{FeOH2} (Waste 4)	= 0.00000E+00 kg $Fe(OH)_2$ m^{-3}	{line 279}
C^0_{FeS} (Waste 2)	= 0.00000E+00 kg FeS m^{-3}	{line 280}
C^0_{FeS} (Waste 3)	= 0.00000E+00 kg FeS m^{-3}	{line 281}
C^0_{FeS} (Waste 4)	= 0.00000E+00 kg FeS m^{-3}	{line 282}
C^0_{MgO} (Waste 2)	= 1.10000E+02 kg MgO m^{-3}	{line 283}
C^0_{MgO} (Waste 3)	= 9.00000E+01 kg MgO m^{-3}	{line 284}
C^0_{MgO} (Waste 4)	= 0.00000E+00 kg MgO m^{-3}	{line 285}
C^0_{MgOH2} (Waste 2)	= 0.00000E+00 kg $Mg(OH)_2$ m^{-3}	{line 286}
C^0_{MgOH2} (Waste 3)	= 0.00000E+00 kg $Mg(OH)_2$ m^{-3}	{line 287}
C^0_{MgOH2} (Waste 4)	= 0.00000E+00 kg $Mg(OH)_2$ m^{-3}	{line 288}
C^0_{MgCO3} (Waste 2)	= 0.00000E+00 kg $MgCO_3$ m^{-3}	{line 289}
C^0_{MgCO3} (Waste 3)	= 0.00000E+00 kg $MgCO_3$ m^{-3}	{line 290}
C^0_{MgCO3} (Waste 4)	= 0.00000E+00 kg $MgCO_3$ m^{-3}	{line 291}
C^0_{Salt} (Waste 2)	= 0.00000E+00 kg Salt m^{-3}	{line 292}
C^0_{Salt} (Waste 3)	= 0.00000E+00 kg Salt m^{-3}	{line 293}
C^0_{Salt} (Waste 4)	= 0.00000E+00 kg Salt m^{-3}	{line 294}

The following parameters are read from the input file and echoed to the output file:

ρ_{CH2O}	= CH_2O density	= 1.1000E+03	{line 295}
ρ_{Fe}	= Fe density	= 7.8700E+03	{line 296}
ρ_{FeOH2}	= $Fe(OH)_2$ density	= 3.4000E+03	{line 297}
ρ_{FeS}	= FeS density	= 4.7000E+03	{line 298}
ρ_{MgO}	= MgO density	= 3.6000E+03	{line 299}
ρ_{MgOH2}	= $Mg(OH)_2$ density	= 2.3700E+03	{line 300}
ρ_{MgCO3}	= $MgCO_3$ density	= 3.0500E+03	{line 301}
ρ_{Salt}	= Salt density	= 2.1700E+03	{line 302}

Calculating the solids produced for each species from Equations 6.14.19 and using these values in Equation 6.14.18 gives

ΔV_s (Waste 2 @ 3.1557E+09 s)	= 6.03681E-03 m^3 solid/m^3 grid	{cell E327}
ΔV_s (Waste 3 @ 3.1557E+09 s)	= 4.21783E-03 m^3 solid/m^3 grid	{cell E328}
ΔV_s (Waste 4 @ 3.1557E+09 s)	= 1.72386E-03 m^3 solid/m^3 grid	{cell E329}

This independent calculations of the solids production model agree within three to four significant digits with the values obtained from the BRAGFLO output file {cells D327-D329} (6.03680E-03, 4.21786E-03, 1.72386E-03).

The agreement between these calculations and the BRAGFLO output verifies that the solids production model is being treated correctly in BRAGFLO, and verifies Functional Requirements R.23.

6.14.4.8 Smooth Permeability

For Test Case #14, the permeability of materials are smoothly varied in time. This is done on a logarithm basis, since these changes occur over several orders of magnitude. The smoothed permeability, k_{smooth}, is calculated by:

$$\ln(k_{smooth}) = \ln(k_{init}) + f(t_n)\left[\ln(k_{final}) - \ln(k_{init})\right] \tag{6.14.20}$$

$$f(t_n) = \left(c_1 + c_2 t_n + c_3 t_n^{\,2} + c_4 t_n^{\,3} + c_5 t_n^{\,4} + c_6 t_n^{\,5} + c_7 t_n^{\,6} + c_8 t_n^{\,7}\right) \tag{6.14.21}$$

$$t_n = \begin{cases} 0 & t \le t_{init} \\ \dfrac{t - t_{init}}{t_{final} - t_{init}} & t_{init} < t < t_{final} \\ 1 & t \ge t_{final} \end{cases} \tag{6.14.22}$$

$$t_{init} = t_{final} - t_{change} \tag{6.14.23}$$

where

k_{init} = the initial permeability of the material (m^2),
k_{final} = the final permeability of the material (m^2),
c_i = the eight coefficients in the smoothing function $f(t_n)$,
t_n = the normalized time factor,
t_{init} = the time for the permeability change to begin (s),
t_{final} = the time for the permeability change to end (s),
t_{change} = the time range for the permeability change (s).

The smooth permeability model is tested at t = 3.9447E+10 s and 2.6035E+11 for element 18 (grid blocks (18,1,1). The smooth permeability model uses the time value from the previous timestep for the calculations which are given in the BRAGFLO output file as follows:

t @ 3.9447E+10 s	= 3.9333E+10 s	{line 332}
t @ 2.6035E+11 s	= 2.6024E+11 s	{line 333}

The following parameters are read from the input file and echoed to the output file:

$k_{init}(1)$	= initial permeability 1	= 1.0000E-11	{line 334}
$k_{final}(1)$	= final permeability 1	= 1.0000E-15	{line 335}
$t_{final}(1)$	= permeability change end time 1	= 6.3114E+10	{line 336}
$t_{change}(1)$	= permeability change time 1	= 3.1557E+10	{line 337}
$c_1(1)$	= smoothing coefficient 1	= 0.0000E+00	{line 338}
$c_2(1)$	= smoothing coefficient 2	= 0.0000E+00	{line 339}
$c_3(1)$	= smoothing coefficient 3	= 1.1000E+01	{line 340}

$c_4(1)$	= smoothing coefficient 4	= -5.0000E+01	{line 341}
$c_5(1)$	= smoothing coefficient 5	= 1.2000E+02	{line 342}
$c_6(1)$	= smoothing coefficient 6	= -1.6000E+02	{line 343}
$c_7(1)$	= smoothing coefficient 7	= 1.1200E+02	{line 344}
$c_8(1)$	= smoothing coefficient 8	= -3.2000E+01	{line 345}
$k_{init}(2)$	= initial permeability 2	= 1.0000E-15	{line 346}
$k_{final}(2)$	= final permeability 2	= 1.0000E-11	{line 347}
$t_{final}(2)$	= permeability change end time 2	= 2.8402E+11	{line 348}
$t_{change}(2)$	= permeability change time 2	= 3.1557E+10	{line 349}
$c_1(2)$	= smoothing coefficient 1	= 0.0000E+00	{line 350}
$c_2(2)$	= smoothing coefficient 2	= 1.0000E+00	{line 351}

Calculating the smoothed permeabilities from Equations 6.14.20-23 gives

k_{smooth} @ 3.9447E+10 s	= 1.0947E-12 m^2	{cell E360}
k_{smooth} @ 2.6035E+11 s	= 9.6664E-15 m^2	{cell E361}

These independent calculations of the smooth permeabilties agree within three to four significant digits with the values obtained from the BRAGFLO output file {cells D360 & D361} (1.09466E-12, 9.66640e-15).

The agreement between these calculations and the BRAGFLO output verifies that the smooth permeability model is being treated correctly in BRAGFLO, and verifies Functional Requirements R.24.

6.14.4.9 ES40 and ES45

The ASCII output files, BF2_QB0600_ES40_TEST14.OUT and BF2_QB0600_ES45_TEST14.OUT, from Test Case #14 of BRAGFLO 6.0 run on the ES40 and ES45, respectively, are compared to the output file, BF2_QB0600_ES47_TEST14.OUT, using the VMS DIFFERENCE command, with the results stored in BF2_QB0600_ES40_TEST14_OUT.DIF and BF2_QB0600_ES45_TEST14_OUT.DIF (Appendix A.14.4), respectively. Examinations of these files show that there are no differences other than run dates and times, file and directory names, platform names, and execution statistics.

7.0 CONCLUSION

The testing for BRAGFLO as prescribed by the RD/VVP has been completed and all acceptance criteria have been satisfied. The test set documented in Section 6 provides complete validation of all requirements and additional functionalities, as specified by the RD/VVP.

Visual inspection of the ASCII output and independent calculations show that BRAGFLO 6.0 is valid on the ES47 running OpenVMS 8.2. There are no differences in values of output variables between the output from the ES40 and ES45 compared with the ES47. Based on the independent calculations and comparison of the output files, we conclude that BRAGFLO 6.0 satisfies the acceptance criteria specified in the RD/VVP (Nemer, 2007) and is valid on the ES40, ES45 and ES47 running OpenVMS 8.2.

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A. APPENDICES

A.1 Test Case 1 Files

A.1.1 Test Case 1: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST1_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST1.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test1.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test1.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test1.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test1.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test1.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST1_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST1.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test1.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test1.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test1.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test1.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test1.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST1_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST1.INP
$   DEFINE bf2_uifold$input  working_dir:BF2_TEST1_QA0500.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test1.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test1.SUM
```

```
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test1.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test1.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test1.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.1.2 Test Case 1: Input File, BF2_QB0600_TEST1.INP

```
**QA**        = PREBRAG QA RECORDS
PREBRAG       = PROGRAM NAME
6.00          = PROGRAM VERSION
09/09/99      = PROGRAM REVISION DATE
09/09/99      = PROGRAM RUN DATE
12:12:12      = PROGRAM RUN TIME
BF2_TEST1.INP: PRESSURE BUILDUP TEST WITH RADIAL GRID
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, BIN RES O, BIN RES IN
T  T  T  F  F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   50   1    1
TSTART,    TMAX,       MAXSTEPS
 0.0       1.E4         100
DT_INIT,  DT_MIN,    DT_MAX,    DT_INCR, IAUTODT, TSWITCH
 1.0E1     0.99999E1      1.E4        1.3       1      1.0000E-02
NUMBER OF TIME TO FIX TIME STEP: NDTFIX
  1
  5000.0 10.0
IPRTYPEASC IPRTYPEBIN IPRTYPERST  UNITSI UNITSO
   0          0          0          'SI'    'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  200
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  200
ASCII PRINT FLAGS
1 1 0 0 0   0 1 1 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
BINARY PRINT FLAGS
1 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
NUMBER OF HISTORY VARIABLES;
 0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
1
MONITOR BLOCK (I,J,K)
   1 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    0    1    0
 GRID DATA CARDS: GRID BLOCK DX'S
0.1000000E-01  0.1300000E-01  0.1690000E-01  0.2197000E-01  0.2856100E-01
0.3712929E-01  0.4826808E-01  0.6274850E-01  0.8157305E-01  0.1060450E+00
0.1378584E+00  0.1792160E+00  0.2329807E+00  0.3028749E+00  0.3937374E+00
0.5118586E+00  0.6654161E+00  0.8650409E+00  0.1124553E+01  0.1461919E+01
0.1900495E+01  0.2470643E+01  0.3211836E+01  0.4175386E+01  0.5428001E+01
```

```
0.7056402E+01  0.9173322E+01  0.1192532E+02  0.1550291E+02  0.2015379E+02
0.2619992E+02  0.3405989E+02  0.4427786E+02  0.5756122E+02  0.7482958E+02
0.9727845E+02  0.1264620E+03  0.1644006E+03  0.2137207E+03  0.2778369E+03
0.3611880E+03  0.4695444E+03  0.6104077E+03  0.7935300E+03  0.1031589E+04
0.1341066E+04  0.1743385E+04  0.2266401E+04  0.2946321E+04  0.3830217E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 1.0
GRID DATA CARDS: GRID BLOCK DZ'S
0.3141593E-01  0.1036726E+00  0.1976062E+00  0.3197199E+00  0.4784677E+00
0.6848398E+00  0.9531236E+00  0.1301892E+01  0.1755292E+01  0.2344711E+01
0.3110957E+01  0.4107075E+01  0.5402029E+01  0.7085469E+01  0.9273942E+01
0.1211896E+02  0.1581747E+02  0.2062555E+02  0.2687604E+02  0.3500168E+02
0.4556502E+02  0.5929735E+02  0.7714938E+02  0.1003570E+03  0.1305270E+03
0.1697479E+03  0.2207350E+03  0.2870184E+03  0.3731867E+03  0.4852056E+03
0.6308300E+03  0.8201418E+03  0.1066247E+04  0.1386184E+04  0.1802102E+04
0.2342795E+04  0.3045697E+04  0.3959469E+04  0.5147372E+04  0.6691646E+04
0.8699202E+04  0.1130903E+05  0.1470179E+05  0.1911240E+05  0.2484618E+05
0.3230009E+05  0.4199018E+05  0.5458730E+05  0.7096354E+05  0.9225267E+05
DEPTH
 10.
WELL DATA
 2
 0.0    1
 1  1  1  1
 INJQ
 0.0  -12.33  1.0  1.E5
 5000.   0
DIRICHLET CONDITIONS
 F    0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 50*1.E7
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 50*0.99999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
 50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 50*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1)  DDEPMAX(2)
 1.000   1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
 1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  7.0000E+00   1.0000E-07
EPS_SAT, EPS_PRES:  LOOSE CONVERGENCE CRITERIA
  7.0000E+00   1.0000E-07
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
EPSGAS1  EPSGAS2  EPSGAS3  EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
  1.0000E-05  1.0000E-05  1.0000E-05  1.0000E-05
LINEAR EQUATION SOLVER TYPE
  LU
ITMAX, IRESETMAX, IJACINT, LSCALE,  P_SCALE, LVARSWTCH
  40   40   1   F  1.0000E+07     F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40   5.0000E-01   1   0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40   40   40   40   40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 1
START TIME FOR MAP 1
 0.0
MATERIAL TYPE GRID MAP
50*1
 #     NAME
```

```
  1      ROCK
 NWST
  0
 NDRZ
  0
 NUMRESET
  0
 MAT_BOREHOLE
  0
 RESET TIME,  ICWASTE
  0.0          0
 POWASTEIC
  0.0
 SOWASTEIC
  0.0
 PRESDRZ
  0.0
 NBORERESET
  0
#  LAMBDA       SOR      SGR
1 7.00E-01  2.00E-01 0.00E+00
#  SBMIN  POMIN    PCMAX    PCTA      PCTEXP     KRP KPC KPT
1  0.2  1.01325E5 1.0000E8 0.0000E+00 0.0000E+00  3   1   0
# PERMX        PERMY        PERMZ     POROSITY    COMPRES
1 1.8000E-11 1.8000E-11 1.8000E-11 1.0000E-01 0.0000E-00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL FLAG
  F
 KLINKENBURG EFFECT
  F
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  300.  1.01325E+05
 SALT(WT.%) DEN_BR         KGSAT  IDGAS  COMPR_BR  WMSALT WMH2O
  2.9600E+01 1.2300E+03     0      0    2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
  1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
  1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
  1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0   0.0   F
```

```
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1.0  1.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, LARXN,  ALPHARXN
 0.0000E+00     F  F  5.0000E+01
WILL CREEP CLOSURE BE ACTIVATED?
 F
WILL RADIONUCLIDE DECAY BE CALCULATED?
 F
WILL TRANSPORT BE ACTIVATED?
 F
WILL RADIOLYSIS BE CALCULATED?
 F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

A.1.3 Test Case 1: Output Difference File, BF2_QB0600_ES47_TEST1_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/06/06 at 11:10:50 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
   71     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   70     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST1]BF2_TEST1_QA0500.INP;2
   71     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   75     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST1]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

```
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   81     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   80     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   81     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.SUM;1
   86     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   85     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.SUM;1
   86     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.BIN;1
   91     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
   90     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.BIN;1
   91     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  141     Restart output timestep interval (IPRNTRST) = 200
  143
**************************************************************************************************
**************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  141     Restart output timestep interval (IPRNTRST) =200
  143
**************************************************************************************************
**************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  194      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  195      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  196      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  197      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  198      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  199      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  200      49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  201      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  202      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  203      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  204      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  205      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  206      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  207      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  208      57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  209      58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  210      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  211      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  212      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  213      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  214      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  215      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  216      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  217      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  218      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  219      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  220      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  221      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  222      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  223      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  224      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  225      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  226      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
```

```
227    76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
228    77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
229    78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
230    79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
231    80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
232    81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
233    82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
234    83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
235    84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
236    85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
237    86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
238    87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
239    88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
240    89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
241    90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
242    91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
243    92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
244    93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
245    94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
246    95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
247    96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
248    97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
249    98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
250    99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
251    100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
252    101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
253    102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
254    103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
255    104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
256    105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
257    106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
258    107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
259    108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
260    109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
261    110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
262    111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
263    112 0 0 H2OFLOWIN Water inflow rate kg/s
264    113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
265    114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
266    115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
267    116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
268    117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
269    118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
270    119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
271    120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
272    121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
273    122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
274    123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
275    124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 277
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  194      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  195      44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  196      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  197      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  198      47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  199      48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  200      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  201      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  202      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  203      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  204      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  205      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  206      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  207      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  208      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  209      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  210      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
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  211     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  212     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  213     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  214     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  215     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  216     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  217     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  218     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  219     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  220     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  221     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  222     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  223     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  224     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  225     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  226     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  227     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  228     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  229     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  230     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  231     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  232     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  233     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  234     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  235     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  236     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  237     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  238     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  239     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  240     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  241     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  242     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  243     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  244     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  245     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  246     95 0 0 H2OFLOWIN Water inflow rate kg/s
  247     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  248     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  249     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  250     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  251     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  252     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  253     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  254     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  255     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  256     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  257     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  258     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  260
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  467     instead of Input IC's for the Cavities
  468     [0=No, 1=Yes] (ICWASTE) = 0
  470     Uniform Cavity Region
  471     Uniform Cavity Region
  473     --------------------------------------------------------------------------------
----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  450     instead of Input IC's for the Waste
  451     [0=No, 1=Yes] (ICWASTE) = 0
  453     Uniform Waste Region
  454     Uniform Waste Region
  456     --------------------------------------------------------------------------------
----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  502     TOL = 1.0000E-02
  503     SOCEFFMIN = 1.0000E-03
  505     Fracture model will be used? (KFRACTURE): F
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  486     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  604     Intrinsic reaction rate constants? (LINTRIN): F
  606     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  585     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  614     MgO hydration reaction rate constants:
  615     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  616     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  618     Saturation cutoff value (SOCMIN): 0.000000E+00
  620     Stoichiometric coeff's for Rxn 1:
  621     H2 coefficient = 0.000000E+00
  622     H2O coefficient = 0.000000E+00
  623     Fe coefficient = 0.000000E+00
  624     Bio coefficient = 0.000000E+00
  625     Fe(OH)2 coefficient = 0.000000E+00
  626     FeS coefficient = 0.000000E+00
  627     MgO coefficient = 0.000000E+00
  628     Mg(OH)2 coefficient = 0.000000E+00
  629     MgCO3 coefficient = 0.000000E+00
  631     Stoichiometric coeff's for Rxn 2:
  632     H2 coefficient = 0.000000E+00
  633     H2O coefficient = 0.000000E+00
  634     Fe coefficient = 0.000000E+00
  635     Bio coefficient = 0.000000E+00
  636     Fe(OH)2 coefficient = 0.000000E+00
  637     FeS coefficient = 0.000000E+00
  638     MgO coefficient = 0.000000E+00
  639     Mg(OH)2 coefficient = 0.000000E+00
  640     MgCO3 coefficient = 0.000000E+00
  642     Stoichiometric coeff's for Rxn 3:
  643     H2 coefficient = 0.000000E+00
  644     H2O coefficient = 0.000000E+00
  645     Fe coefficient = 0.000000E+00
  646     Bio coefficient = 0.000000E+00
  647     Fe(OH)2 coefficient = 0.000000E+00
  648     FeS coefficient = 0.000000E+00
  649     MgO coefficient = 0.000000E+00
  650     Mg(OH)2 coefficient = 0.000000E+00
  651     MgCO3 coefficient = 0.000000E+00
  653     Stoichiometric coeff's for Rxn 4:
  654     H2 coefficient = 0.000000E+00
  655     H2O coefficient = 0.000000E+00
  656     Fe coefficient = 0.000000E+00
  657     Bio coefficient = 0.000000E+00
  658     Fe(OH)2 coefficient = 0.000000E+00
  659     FeS coefficient = 0.000000E+00
  660     MgO coefficient = 0.000000E+00
  661     Mg(OH)2 coefficient = 0.000000E+00
  662     MgCO3 coefficient = 0.000000E+00
  664     Stoichiometric coeff's for Rxn 5:
  665     H2 coefficient = 0.000000E+00
  666     H2O coefficient = 0.000000E+00
  667     Fe coefficient = 0.000000E+00
  668     Bio coefficient = 0.000000E+00
  669     Fe(OH)2 coefficient = 0.000000E+00
  670     FeS coefficient = 0.000000E+00
  671     MgO coefficient = 0.000000E+00
  672     Mg(OH)2 coefficient = 0.000000E+00
  673     MgCO3 coefficient = 0.000000E+00
  675     Stoichiometric coeff's for Rxn 6:
  676     H2 coefficient = 0.000000E+00
  677     H2O coefficient = 0.000000E+00
  678     Fe coefficient = 0.000000E+00
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  679     Bio coefficient = 0.000000E+00
  680     Fe(OH)2 coefficient = 0.000000E+00
  681     FeS coefficient = 0.000000E+00
  682     MgO coefficient = 0.000000E+00
  683     Mg(OH)2 coefficient = 0.000000E+00
  684     MgCO3 coefficient = 0.000000E+00
  686     Stoichiometric coeff's for Rxn 7:
  687     H2 coefficient = 0.000000E+00
  688     H2O coefficient = 0.000000E+00
  689     Fe coefficient = 0.000000E+00
  690     Bio coefficient = 0.000000E+00
  691     Fe(OH)2 coefficient = 0.000000E+00
  692     FeS coefficient = 0.000000E+00
  693     MgO coefficient = 0.000000E+00
  694     Mg(OH)2 coefficient = 0.000000E+00
  695     MgCO3 coefficient = 0.000000E+00
  697     Wicking term (SATWICK) = 0.000000E+00
  698     Humid rates to be smoothed? (LARXN) = F
  699     Concentration rates to be smoothed? (LARXN2) = F
  700     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  702     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  593     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  594     Gas coefficient = 1.000000E+00
  595     H2O coefficient = 0.000000E+00
  596     Fe coefficient = 1.000000E+00
  598     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  599     Gas coefficient = 1.000000E+00
  600     H2O coefficient = 0.000000E+00
  601     Bio coefficient = 1.000000E+00
  603     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  706     Bio: 2.7023E-02 kg/mol
  708     Molecular weights (WM):
  709     Fe(OH)2: 8.9862E-02 kg/mol
  710     FeS: 8.7900E-02 kg/mol
  711     MgO: 4.0304E-02 kg/mol
  712     Mg(OH)2: 5.8320E-02 kg/mol
  713     MgCO3: 8.4314E-02 kg/mol
  715     Densities (DEN(1-4)):
  716     Fe: 7.8700E+03 kg/m3
  717     Fe(OH)2: 3.4000E+03 kg/m3
  718     FeS: 4.7000E+03 kg/m3
  719     Bio: 1.1000E+03 kg/m3
  721     Densities (DEN(5-8)):
  722     MgO: 3.6000E+03 kg/m3
  723     Mg(OH)2: 2.3700E+03 kg/m3
  724     MgCO3: 3.0500E+03 kg/m3
  725     SALT: 2.1700E+03 kg/m3
  727     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  607     Bio: 3.0026E-02 kg/mol
  609     Wicking term (SATWICK) = 0.000000E+00
  610     Humid rates to be smoothed? (LARXN) = F
  611     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  613     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  886     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  888     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  889     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  892    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
  772     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  774     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  775     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
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 778    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 900    CPU Time (this time step) = 0.06 sec = 0.00002 hr
 901    CPU Time (total for run) = 0.06 sec = 0.00002 hr
 902    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 786    CPU Time (this time step) = 0.02 sec = 0.00001 hr
 787    CPU Time (total for run) = 0.02 sec = 0.00001 hr
 788    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 960      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 962    Time Step No. = 1 Elapsed Time = 1.157407E-04 days
 963      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 966    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 846      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 848    Time Step No. = 1 Elapsed Time = 1.157407E-04 days
 849      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 852    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 975    CPU Time (total for run) = 0.06 sec = 0.00002 hr
 976    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 861    CPU Time (total for run) = 0.02 sec = 0.00001 hr
 862    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1034      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
1036    Time Step No. = 2 Elapsed Time = 2.314803E-04 days
1037      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
1040    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 920      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 922    Time Step No. = 2 Elapsed Time = 2.314803E-04 days
 923      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 926    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1049    CPU Time (total for run) = 0.06 sec = 0.00002 hr
1050    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 935    CPU Time (total for run) = 0.02 sec = 0.00001 hr
 936    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1108      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
1110    Time Step No. = 3 Elapsed Time = 3.819418E-04 days
1111      Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
1114    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 994      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 996    Time Step No. = 3 Elapsed Time = 3.819418E-04 days
 997      Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
1000    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
1123    CPU Time (total for run) = 0.07 sec = 0.00002 hr
1124    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
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 1009    CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1010    ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1182    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1184    Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1185    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1188    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1068    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1070    Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1071    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1074    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1197    CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1198    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1083    CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1084    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1256    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1258    Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1259    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1262    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1142    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1144    Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1145    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1148    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1271    CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1272    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1157    CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1158    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1330    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1332    Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1333    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1336    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1216    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1218    Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1219    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1222    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1345    CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1346    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1231    CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1232    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1404    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1406    Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1407    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1410    ****************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1290    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1292    Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1293    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1296   ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1419    CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1420   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1305    CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1306   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1478    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1480    Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1481    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1484   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1364    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1366    Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1367    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1370   ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1493    CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1494   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1379    CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1380   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1552    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1554    Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1555    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1558   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1438    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1440    Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1441    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1444   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1566    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1567    CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1568   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1452    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1453    CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1454   ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1626    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1628    Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1629    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1632   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1512    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1514    Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1515    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1518   ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
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 1640     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1641     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1642     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1526     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1527     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1528     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1700     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1702     Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1703     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1706     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1586     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1588     Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1589     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1592     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1715     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1716     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1601     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1602     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1774     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1776     Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1777     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1780     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1660     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1662     Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1663     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1666     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1789     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1790     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1675     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1676     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1848     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1850     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1851     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1854     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1734     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1736     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1737     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1740     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1863     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1864     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1749     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1750     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1922     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1924     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1925     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1928    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1808     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1810     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1811     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1814    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1937     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1938    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1823     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1824    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1996     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1998     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1999     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2002    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1882     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1884     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1885     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1888    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2011     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2012    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1897     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1898    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2070     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2072     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 2073     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2076    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1956     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1958     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 1959     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1962    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2084     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2085     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2086    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 1970     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1971     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1972    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2144     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2146     Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2147     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2150    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2030     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
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 2032    Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2033    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 2036   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2159    CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2160   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2045    CPU Time (total for run) = 0.06 sec = 0.00002 hr
 2046   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2218    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2220    Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2221    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2224   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2104    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 2106    Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2107    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 2110   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2233    CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2234   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2119    CPU Time (total for run) = 0.06 sec = 0.00002 hr
 2120   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2292    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2294    Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2295    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2298   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2178    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2180    Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2181    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2184   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2307    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2308   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2193    CPU Time (total for run) = 0.07 sec = 0.00002 hr
 2194   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2366    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2368    Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2369    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2372   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2252    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2254    Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2255    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2258   *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2381    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2382   *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
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 2267     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 2268    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2440     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2442     Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2443     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2446    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2326     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2328     Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2329     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2332    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2455     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2456    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2341     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 2342    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2514     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2516     Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2517     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2520    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2400     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2402     Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2403     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2406    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2528     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2529     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2530    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2414     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2415     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2416    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2588     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2590     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2594    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2474     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2476     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2477     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2480    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2602     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2603     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2604    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2488     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2489     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2490    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2662     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
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 2664     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2668    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2548     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2550     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2551     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2554    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2677     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2678    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2563     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2564    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2736     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2738     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2742    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2622     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2624     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2625     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2628    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2751     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2752    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2637     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2638    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2810     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2812     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2813     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2816    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2696     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2698     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2699     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2702    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2825     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2826    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2711     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2712    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2884     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2886     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2887     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2890    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2770     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2772     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2773     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2776    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2899     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2900     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2785     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2786     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2958     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2960     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2964     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2844     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2846     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2847     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2850     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2973     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2974     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2859     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2860     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3032     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3034     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3038     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2918     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2920     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 2921     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2924     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3047     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3048     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2933     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2934     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3106     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3108     Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3112     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 2992     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2994     Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 2995     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2998     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3121     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3122     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3007     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 3008     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3180     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3182     Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3183     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3186    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3066     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 3068     Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3069     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 3072    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3195     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3196    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3081     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 3082    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3254     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3256     Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3257     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3260    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3140     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 3142     Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3143     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 3146    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3269     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3270    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3155     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 3156    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3328     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3330     Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3331     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3334    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3214     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 3216     Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3217     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 3220    ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3343     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3344    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3229     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 3230    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3402     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3404     Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3408    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3288     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 3290     Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3291     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
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 3294   ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3417    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3418   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3303    CPU Time (total for run) = 0.11 sec = 0.00003 hr
 3304   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3476    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3478    Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3482   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3362    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 3364    Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3365    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 3368   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3491    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3492   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3377    CPU Time (total for run) = 0.11 sec = 0.00003 hr
 3378   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3550    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3552    Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3556   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3436    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3438    Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3439    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3442   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3564    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3565    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3566   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3450    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3451    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3452   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3624    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3626    Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3627    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3630   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3510    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3512    Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3513    Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3516   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3639    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3640   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
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 3525     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3526    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3698     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3700     Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3701     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3704    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3584     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3586     Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3587     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3590    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3713     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3714    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3599     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3600    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3772     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3774     Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3775     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3778    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3658     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3660     Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3661     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3664    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3786     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3787     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3788    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3672     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3673     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3674    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3846     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3848     Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3849     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3852    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3732     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3734     Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3735     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3738    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3860     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3861     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3862    ***********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3746     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3747     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3748    ***********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3920     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
```

```
 3922     Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3923     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3926     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3806     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3808     Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3809     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3812     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3935     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3936     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3821     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3822     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3994     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3996     Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3997     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 4002     ********************************************************************************
 4003     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4004     * Completed: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4005     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
 3880     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3882     Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3883     Date: 04/06/06 Time: 11:10:50 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3888     ********************************************************************************
 3889     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3890     * Completed: 04/06/06 at 11:10:50 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 3891     ********************************************************************************
************

Number of difference sections found: 98
Number of difference records found: 375

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_VMS82_V500_ES47_TEST1.OUT;1
```

A.1.4 Test Case 1: Output Difference Files, BF2_QB0600_ES40_TEST1_OUT.DIF and BF2_QB0600_ES45_TEST1_OUT.DIF

BF2_QB0600_ES40_TEST1_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
    3     ** Begun on: 02/14/07 at 08:52:18 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_TEST1.INP;2
   71     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
   71     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
```

```
   75     PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_CLOSURE.DAT;1
   76     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_CLOSURE.DAT;1
   76     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
   81     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   81     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.SUM;1
   86     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.SUM;1
   86     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.BIN;1
   91     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.BIN;1
   91     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
  886     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  888     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  889     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  892     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  886     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  888     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  889     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  892     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
  960     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  962     Time Step No. = 1 Elapsed Time = 1.157407E-04 days
  963     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  966     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  960     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  962     Time Step No. = 1 Elapsed Time = 1.157407E-04 days
  963     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  966     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1034     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1036     Time Step No. = 2 Elapsed Time = 2.314803E-04 days
 1037     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1040     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1034     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1036     Time Step No. = 2 Elapsed Time = 2.314803E-04 days
 1037     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1040     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1048     CPU Time (this time step) = 0.01 sec = 0.00000 hr
```

```
 1049     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1050    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1048     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1049     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1050    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1108     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1110     Time Step No. = 3 Elapsed Time = 3.819418E-04 days
 1111     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1114    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1108     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1110     Time Step No. = 3 Elapsed Time = 3.819418E-04 days
 1111     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1114    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1122     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1123     CPU Time (total for run) = 0.07 sec = 0.00002 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1122     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1123     CPU Time (total for run) = 0.07 sec = 0.00002 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1182     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1184     Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1185     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1188    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1182     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1184     Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1185     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1188    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1256     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1258     Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1259     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1262    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1256     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1258     Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1259     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1262    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1270     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1271     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1272    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1270     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1271     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1272    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1330     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1332     Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1333     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1336    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1330     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
```

```
 1332     Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1333     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1336    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1344     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1345     CPU Time (total for run) = 0.08 sec = 0.00002 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1344     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1345     CPU Time (total for run) = 0.08 sec = 0.00002 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1404     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1406     Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1407     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1410    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1404     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1406     Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1407     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1410    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1418     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1419     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1420    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1418     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1419     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1420    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1478     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1480     Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1481     Date: 02/14/07 Time: 08:52:18 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1484    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1478     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1480     Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1481     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1484    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1493     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1494    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1493     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1494    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1552     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1554     Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1555     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1558    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1552     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1554     Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1555     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1558    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1566     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1567     CPU Time (total for run) = 0.09 sec = 0.00003 hr
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1566    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1567    CPU Time (total for run) = 0.09 sec = 0.00003 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1626    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1628    Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1629    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1632   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1626    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1628    Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1629    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1632   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1640    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1641    CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1642   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1640    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1641    CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1642   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1700    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1702    Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1703    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1706   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1700    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1702    Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1703    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1706   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1715    CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1716   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1715    CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1716   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1774    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 1776    Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1777    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 1780   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1774    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1776    Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1777    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1780   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1788    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1789    CPU Time (total for run) = 0.11 sec = 0.00003 hr
 1790   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1788    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1789    CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1790   ********************************************************************************
************
************
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1848     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 1850     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1851     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 1854     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1848     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1850     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1851     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1854     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1862     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1863     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 1864     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1862     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1863     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1864     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1922     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 1924     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1925     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 1928     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1922     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1924     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1925     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1928     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1936     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1937     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 1938     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1936     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1937     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1938     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 1996     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 1998     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1999     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2002     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1996     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1998     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1999     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2002     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2011     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2012     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2011     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2012     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2070     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2072     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 2073     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2076     ********************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2070     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2072     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 2073     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2076    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2084     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2085     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2086    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2084     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2085     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2086    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2144     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2146     Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2147     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2150    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2144     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2146     Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2147     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2150    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2158     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2159     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2160    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2158     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2159     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2160    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2218     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2220     Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2221     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2224    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2218     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2220     Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2221     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2224    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2233     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2234    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2233     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2234    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2292     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2294     Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2295     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2298    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2292     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2294     Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2295     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2298    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2306    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2307    CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2308   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2306    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2307    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2308   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2366    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2368    Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2369    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2372   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2366    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2368    Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2369    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2372   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2380    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2381    CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2382   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2380    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2381    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2382   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2440    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2442    Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2443    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2446   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2440    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2442    Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2443    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2446   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2454    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2455    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 2456   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2454    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2455    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2456   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2514    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 2516    Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2517    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 2520   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2514    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2516    Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2517    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2520   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2529    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 2530   ******************************************************************************
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******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2529     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2530     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2588     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 2590     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 2594     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2588     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2590     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2594     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2602     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2603     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 2604     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2602     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2603     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2604     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2662     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 2664     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 2668     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2662     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2664     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2668     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2676     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2677     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 2678     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2676     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2677     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2678     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2736     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 2738     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 2742     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2736     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2738     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2742     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2751     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 2752     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2751     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2752     ****************************************************************************
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2810     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 2812     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2813     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 2816    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2810     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2812     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2813     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2816    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2825     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 2826    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2825     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2826    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2884     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 2886     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2887     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 2890    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2884     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2886     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2887     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2890    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2899     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 2900    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2899     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2900    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2958     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 2960     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 2964    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2958     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2960     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2964    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 2973     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 2974    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2973     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2974    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3032     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
 3034     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 3038    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3032     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3034     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
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 3038   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3046     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3047     CPU Time (total for run) = 0.18 sec = 0.00005 hr
 3048   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3046     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3047     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3048   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3106     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
 3108     Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 3112   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3106     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3108     Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3112   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3120     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3121     CPU Time (total for run) = 0.18 sec = 0.00005 hr
 3122   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3120     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3121     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3122   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3180     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) ASCII
 3182     Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3183     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 3186   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3180     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3182     Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3183     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3186   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3194     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3195     CPU Time (total for run) = 0.19 sec = 0.00005 hr
 3196   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3194     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3195     CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3196   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3254     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
 3256     Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3257     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 3260   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3254     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3256     Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3257     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3260   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
```

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 3269    CPU Time (total for run) = 0.19 sec = 0.00005 hr
 3270    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3269    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3270    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3328    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
 3330    Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3331    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 3334    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3328    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3330    Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3331    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3334    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3342    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3343    CPU Time (total for run) = 0.19 sec = 0.00005 hr
 3344    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3342    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3343    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3344    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3402    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
 3404    Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 3408    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3402    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3404    Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3408    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3416    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3417    CPU Time (total for run) = 0.20 sec = 0.00006 hr
 3418    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3416    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3417    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3418    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3476    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
 3478    Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479    Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 3482    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3476    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3478    Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3482    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3491    CPU Time (total for run) = 0.20 sec = 0.00006 hr
 3492    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3491    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3492    ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3550     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) ASCII
 3552     Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 3556    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3550     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3552     Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3556    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3564     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3565     CPU Time (total for run) = 0.21 sec = 0.00006 hr
 3566    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3564     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3565     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3566    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3624     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
 3626     Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3627     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 3630    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3624     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3626     Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3627     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3630    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3639     CPU Time (total for run) = 0.21 sec = 0.00006 hr
 3640    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3639     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3640    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3698     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
 3700     Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3701     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 3704    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3698     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3700     Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3701     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3704    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3713     CPU Time (total for run) = 0.21 sec = 0.00006 hr
 3714    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3713     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3714    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3772     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) ASCII
 3774     Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3775     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 3778    ******************************************************************************
******
```

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3772     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3774     Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3775     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3778    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3786     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3787     CPU Time (total for run) = 0.22 sec = 0.00006 hr
 3788    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3786     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3787     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3788    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3846     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) ASCII
 3848     Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3849     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 3852    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3846     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3848     Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3849     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3852    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3860     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3861     CPU Time (total for run) = 0.22 sec = 0.00006 hr
 3862    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3860     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3861     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3862    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3920     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) ASCII
 3922     Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3923     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 3926    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3920     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3922     Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3923     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3926    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3934     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3935     CPU Time (total for run) = 0.23 sec = 0.00006 hr
 3936    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3934     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3935     CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3936    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1
 3994     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) ASCII
 3996     Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3997     Date: 02/14/07 Time: 08:52:19 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 4002    ******************************************************************************
 4003     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4004     * Completed: 02/14/07 at 08:52:19 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 4005    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

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 3994     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3996     Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3997     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 4002     ******************************************************************************
 4003     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4004     * Completed: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4005     ******************************************************************************
************

Number of difference sections found: 88
Number of difference records found: 200

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES40_TEST1.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

BF2_QB0600_ES45_TEST1_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
    3     ** Begun on: 02/14/07 at 09:14:28 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_TEST1.INP;2
   71     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_TEST1.INP;2
   71     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_CLOSURE.DAT;1
   76     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_CLOSURE.DAT;1
   76     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   81     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   81     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.SUM;1
   86     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.SUM;1
   86     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.BIN;1
   91     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST1]BF2_QB0600_ES47_TEST1.BIN;1
   91     ******************************************************************************
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  886     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  888     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  889     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  892    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  886     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  888     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
  889     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  892    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  900     CPU Time (this time step) = 0.03 sec = 0.00001 hr
  901     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  902    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  900     CPU Time (this time step) = 0.06 sec = 0.00002 hr
  901     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  902    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  960     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  962     Time Step No. = 1 Elapsed Time = 1.157407E-04 days
  963     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  966    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  960     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  962     Time Step No. = 1 Elapsed Time = 1.157407E-04 days
  963     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  966    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
  975     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  976    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
  975     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  976    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1034     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1036     Time Step No. = 2 Elapsed Time = 2.314803E-04 days
 1037     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1040    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1034     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1036     Time Step No. = 2 Elapsed Time = 2.314803E-04 days
 1037     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1040    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1049     CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1050    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1049     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1050    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1108     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1110     Time Step No. = 3 Elapsed Time = 3.819418E-04 days
 1111     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1114    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1108     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
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 1110     Time Step No. = 3 Elapsed Time = 3.819418E-04 days
 1111     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1114    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1123     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1124    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1123     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1124    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1182     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1184     Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1185     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1188    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1182     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1184     Time Step No. = 4 Elapsed Time = 5.775417E-04 days
 1185     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1188    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1197     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1198    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1197     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1198    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1256     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1258     Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1259     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1262    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1256     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1258     Time Step No. = 5 Elapsed Time = 8.318215E-04 days
 1259     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1262    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1271     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1272    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1271     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1272    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1330     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1332     Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1333     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1336    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1330     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1332     Time Step No. = 6 Elapsed Time = 1.162385E-03 days
 1333     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1336    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1344     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1345     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1346    ********************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1344     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1345     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1346    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1404     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1406     Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1407     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1410    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1404     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1406     Time Step No. = 7 Elapsed Time = 1.592118E-03 days
 1407     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1410    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1418     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1419     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1420    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1418     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1419     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1420    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1478     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1480     Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1481     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1484    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1478     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1480     Time Step No. = 8 Elapsed Time = 2.150771E-03 days
 1481     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1484    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1493     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1494    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1493     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 1494    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1552     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1554     Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1555     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1558    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1552     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 1554     Time Step No. = 9 Elapsed Time = 2.877020E-03 days
 1555     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 1558    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1566     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1567     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1568    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1566     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1567     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1568    *****************************************************************************
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1626     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1628     Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1629     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1632    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1626     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1628     Time Step No. = 10 Elapsed Time = 3.821143E-03 days
 1629     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1632    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1640     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1641     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1642    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1640     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1641     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1642    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1700     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1702     Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1703     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1706    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1700     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1702     Time Step No. = 11 Elapsed Time = 5.048504E-03 days
 1703     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1706    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1715     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1716    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1715     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1716    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1774     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1776     Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1777     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1780    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1774     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 1776     Time Step No. = 12 Elapsed Time = 6.644072E-03 days
 1777     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 1780    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1789     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1790    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1789     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 1790    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1848     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1850     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1851     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1854    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1848     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
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 1850     Time Step No. = 13 Elapsed Time = 8.718311E-03 days
 1851     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1854    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1863     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1864    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1863     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1864    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1922     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1924     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1925     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1928    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1922     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1924     Time Step No. = 14 Elapsed Time = 1.141482E-02 days
 1925     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 1928    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1937     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1938    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1937     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 1938    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 1996     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1998     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1999     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2002    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 1996     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 1998     Time Step No. = 15 Elapsed Time = 1.492029E-02 days
 1999     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2002    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2011     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 2012    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2011     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2012    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2070     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2072     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 2073     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2076    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2070     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2072     Time Step No. = 16 Elapsed Time = 1.947739E-02 days
 2073     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2076    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2084     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2085     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 2086    ********************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2084     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2085     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2086    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2144     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2146     Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2147     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2150    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2144     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2146     Time Step No. = 17 Elapsed Time = 2.540162E-02 days
 2147     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2150    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2158     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2159     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2160    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2158     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2159     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2160    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2218     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2220     Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2221     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2224    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2218     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2220     Time Step No. = 18 Elapsed Time = 3.310313E-02 days
 2221     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2224    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2233     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2234    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2233     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2234    ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2292     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2294     Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2295     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2298    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2292     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2294     Time Step No. = 19 Elapsed Time = 4.311508E-02 days
 2295     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2298    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2306     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2307     CPU Time (total for run) = 0.08 sec = 0.00002 hr
 2308    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2306     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2307     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2308    ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2366     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2368     Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2369     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2372    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2366     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2368     Time Step No. = 20 Elapsed Time = 5.613062E-02 days
 2369     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2372    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2380     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2381     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2382    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2380     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2381     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2382    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2440     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2442     Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2443     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2446    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2440     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2442     Time Step No. = 21 Elapsed Time = 5.787037E-02 days
 2443     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2446    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2455     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2456    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2455     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2456    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2514     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2516     Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2517     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2520    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2514     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2516     Time Step No. = 22 Elapsed Time = 5.798611E-02 days
 2517     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 2520    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2529     CPU Time (total for run) = 0.09 sec = 0.00003 hr
 2530    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2529     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 2530    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2588     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
 2590     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
 2594    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2588     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
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 2590     Time Step No. = 23 Elapsed Time = 5.810185E-02 days
 2591     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2594     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2603     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2604     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2603     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2604     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2662     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2664     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2668     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2662     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2664     Time Step No. = 24 Elapsed Time = 5.825231E-02 days
 2665     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2668     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2677     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2678     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2677     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2678     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2736     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2738     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2742     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2736     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2738     Time Step No. = 25 Elapsed Time = 5.844791E-02 days
 2739     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2742     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2751     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2752     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2751     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 2752     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2810     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2812     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2813     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2816     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2810     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 2812     Time Step No. = 26 Elapsed Time = 5.870219E-02 days
 2813     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2816     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2824     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2825     CPU Time (total for run) = 0.10 sec = 0.00003 hr
 2826     ********************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2824     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2825     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2826    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2884     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2886     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2887     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2890    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2884     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2886     Time Step No. = 27 Elapsed Time = 5.903276E-02 days
 2887     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2890    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2898     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2899     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2900    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2898     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2899     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2900    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2958     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2960     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2964    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2958     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 2960     Time Step No. = 28 Elapsed Time = 5.946249E-02 days
 2961     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 2964    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 2973     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 2974    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 2973     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 2974    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3032     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 3034     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 3038    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3032     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3034     Time Step No. = 29 Elapsed Time = 6.002114E-02 days
 3035     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3038    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3047     CPU Time (total for run) = 0.11 sec = 0.00003 hr
 3048    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3047     CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3048    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3106     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
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 3108    Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 3112    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3106    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3108    Time Step No. = 30 Elapsed Time = 6.074739E-02 days
 3109    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3112    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3121    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3122    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3121    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3122    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3180    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3182    Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3183    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3186    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3180    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3182    Time Step No. = 31 Elapsed Time = 6.169151E-02 days
 3183    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3186    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3195    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3196    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3195    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3196    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3254    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3256    Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3257    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3260    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3254    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
 3256    Time Step No. = 32 Elapsed Time = 6.291887E-02 days
 3257    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 3260    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3269    CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3270    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3269    CPU Time (total for run) = 0.15 sec = 0.00004 hr
 3270    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3328    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3330    Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3331    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3334    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3328    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3330    Time Step No. = 33 Elapsed Time = 6.451444E-02 days
 3331    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3334    ********************************************************************************
************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3342     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3343     CPU Time (total for run) = 0.12 sec = 0.00003 hr
 3344     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3342     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3343     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3344     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3402     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 3404     Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 3408     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3402     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3404     Time Step No. = 34 Elapsed Time = 6.658868E-02 days
 3405     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3408     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3416     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3417     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3418     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3416     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3417     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3418     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3476     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3478     Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3482     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3476     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3478     Time Step No. = 35 Elapsed Time = 6.928519E-02 days
 3479     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3482     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3491     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3492     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3491     CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3492     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3550     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3552     Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553     Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3556     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3550     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3552     Time Step No. = 36 Elapsed Time = 7.279066E-02 days
 3553     Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3556     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3565     CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3566     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

```
 3565    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3566   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3624    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) ASCII
 3626    Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3627    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 3630   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3624    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3626    Time Step No. = 37 Elapsed Time = 7.734776E-02 days
 3627    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3630   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3639    CPU Time (total for run) = 0.13 sec = 0.00004 hr
 3640   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3639    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3640   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3698    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3700    Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3701    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3704   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3698    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3700    Time Step No. = 38 Elapsed Time = 8.327199E-02 days
 3701    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3704   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3712    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3713    CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3714   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3712    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3713    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3714   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3772    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3774    Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3775    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3778   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3772    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 3774    Time Step No. = 39 Elapsed Time = 9.097350E-02 days
 3775    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 3778   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3787    CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3788   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3787    CPU Time (total for run) = 0.16 sec = 0.00004 hr
 3788   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3846    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3848    Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3849    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
```

```
 3852    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3846    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3848    Time Step No. = 40 Elapsed Time = 1.009855E-01 days
 3849    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3852    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3860    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3861    CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3862    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3860    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3861    CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3862    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3920    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3922    Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3923    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 3926    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3920    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3922    Time Step No. = 41 Elapsed Time = 1.140010E-01 days
 3923    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 3926    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3935    CPU Time (total for run) = 0.14 sec = 0.00004 hr
 3936    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3935    CPU Time (total for run) = 0.17 sec = 0.00005 hr
 3936    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1
 3994    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
 3996    Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3997    Date: 02/14/07 Time: 09:14:28 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 4002    ******************************************************************************
 4003    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4004    * Completed: 02/14/07 at 09:14:28 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 4005    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
 3994    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
 3996    Time Step No. = 42 Elapsed Time = 1.157407E-01 days
 3997    Date: 02/13/07 Time: 14:11:29 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 4002    ******************************************************************************
 4003    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4004    * Completed: 02/13/07 at 14:11:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4005    ******************************************************************************
************

Number of difference sections found: 91
Number of difference records found: 195

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES45_TEST1.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST1]BF2_QB0600_ES47_TEST1.OUT;1
```

A.2 Test Case 2 Files

A.2.1 Test Case 2: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST2_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST2.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test2.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test2.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test2.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test2.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test2.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST2_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST2.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test2.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test2.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test2.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test2.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test2.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST2_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST2.INP
$   DEFINE bf2_uifold$input  working_dir:BF2_TEST2_QA0500.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test2.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test2.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test2.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test2.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test2.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.2.2 Test Case 2: Input File, BF2_QB0600_TEST2.INP

```
1D HORIZONTAL INFILTRATION BENCHMARK PROBLEM
FILES TO USE:  ASCII, BINARY, SUMMARY, RESTART OUT, RESTART IN
   T    F    T    F    F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   41    1    1
TSTART,   TMAX,       MAXSTEPS
 0.0   9504.   5000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  1.0  1.0   1000.   1.5000E+00  1     1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
 0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    0    'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 864.  5184.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  100
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  100
ASCII PRINT FLAGS
1 1 0 0 0  0 1 1 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  0 0 0 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLES
0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
   1
MONITOR BLOCK (I,J,K)
   2    1    1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    1    1   0
GRID DATA CARDS: GRID BLOCK DX'S
   0.000001  40*0.005
GRID DATA CARDS: GRID BLOCK DY'S
   10000.    40*1.0
GRID DATA CARDS: GRID BLOCK DZ'S
   10000.    40*1.0
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
   1    1    1 0.000000E+00 9.000000E+01 0.000000E+00 0.000000E+00
WELL DATA
 0
DIRICHLET CONDITIONS
 F   1
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 109525.  40*1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
```

```
1.0   40*0.44444444
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
41*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1), DDEPMAX(2)
  1.0000    1.E7
CONVERGENCE TEST FLAG:  0=OR/1=AND
  1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
EPS_SAT, EPS_PRES:  LOOSER CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
FTOL_SAT, FTOL_PRES:  NORMAL RESIDUALS TOLERANCE
  1.0000E-07    1.0000E-07
FTOL_SAT, FTOL_PRES:  LOOSER RESIDUALS TOLERANCE
  1.0000E-07    1.0000E-07
EPSGAS:  RXN PATH TOLS
  4*1.E-4
SOLVER
  LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
  40       40        1          T         1.E7      F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40           40     5.0000E-01   1        0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40           40         40          40          40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
41*1
 #      NAME
 1      WASTE
NWST
  0
NDRZ
  0
NMATRESET
  0
MAT_BOREHOLE
  1
RESET TIME,  ICWASTE
 0.0          0
POWASTEIC
 0.0
SOWASTEIC
 0.0
PRESDRZ
 0.0
NBORERESET
 0
 #     LAMBDA      SOR        SGR
 1  1.517E+00  0.3333333   0.0
 #     SBMIN  POMIN  PCMAX  PCT_A    PCT_EXP    KRP KPC  KPT
 1  0.34   1.01325E5 9807.   0.0     -0.2865812  5   2    1
 #  PERMX       PERMY       PERMZ     POROSITY   COMPRES
 1 1.18E-14   1.18E-14   1.18E-14    0.45       0.0E-00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
 F
KLINKENBERG EFFECT
```

```
 F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01325E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
0.0        1.00E+03   0      0    0.0000E-00 58.442468D-03  18.01528D-03
VISC_BR    VISC_GAS
 1.0000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, O2, AND H2S
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00   1    1
GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0  0.0  F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0   0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
 0.0     F F    2000.
WILL CREEP CLOSURE BE ACTIVATED?
 F
WILL RADIONUCLIDE DECAY BE ACTIVATED?
 F
WILL TRANSPORT BE CALCULATED?
 F
RXN PATH?
```

F

A.2.3 Test Case 2: Output Difference File, BF2_QB0600_ES47_TEST2_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/06/06 at 15:37:06 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_TEST2_QA0500.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  125     Restart output timestep interval (IPRNTRST) = 100
  127
*********************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  125     Restart output timestep interval (IPRNTRST) =100
  127
*********************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
```

178   43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s

179   44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s

```
45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
```

```
  250     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  178     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  179     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  180     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  181     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  182     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  183     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  184     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  185     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  186     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  187     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  188     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  189     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  190     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  191     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  192     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  193     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  194     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  195     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  196     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  197     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  198     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  199     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  200     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  201     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  202     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  203     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  204     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  205     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  206     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  207     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  208     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  209     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  210     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  211     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  212     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  213     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  214     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  215     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  216     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  217     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  218     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  219     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  220     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  221     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  222     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  223     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  224     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  225     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  226     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  227     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  228     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  229     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  230     95 0 0 H2OFLOWIN Water inflow rate kg/s
  231     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  232     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  233     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  234     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  235     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  236     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  237     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
```

```
238     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
239     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
240     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
241     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
242     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
244
*****************************************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
428     instead of Input IC's for the Cavities
429     [0=No, 1=Yes] (ICWASTE) = 0
431     Uniform Cavity Region
432     Uniform Cavity Region
434     ------------------------------------------------------------------------------------------------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
411     instead of Input IC's for the Waste
412     [0=No, 1=Yes] (ICWASTE) = 0
414     Uniform Waste Region
415     Uniform Waste Region
417     ------------------------------------------------------------------------------------------------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
463     TOL = 1.0000E-02
464     SOCEFFMIN = 1.0000E-03
466     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
447     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
565     Intrinsic reaction rate constants? (LINTRIN): F
567     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
546     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
575     MgO hydration reaction rate constants:
576     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
577     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
579     Saturation cutoff value (SOCMIN): 0.000000E+00
581     Stoichiometric coeff's for Rxn 1:
582     H2 coefficient = 0.000000E+00
583     H2O coefficient = 0.000000E+00
584     Fe coefficient = 0.000000E+00
585     Bio coefficient = 0.000000E+00
586     Fe(OH)2 coefficient = 0.000000E+00
587     FeS coefficient = 0.000000E+00
588     MgO coefficient = 0.000000E+00
589     Mg(OH)2 coefficient = 0.000000E+00
590     MgCO3 coefficient = 0.000000E+00
592     Stoichiometric coeff's for Rxn 2:
593     H2 coefficient = 0.000000E+00
594     H2O coefficient = 0.000000E+00
595     Fe coefficient = 0.000000E+00
596     Bio coefficient = 0.000000E+00
597     Fe(OH)2 coefficient = 0.000000E+00
598     FeS coefficient = 0.000000E+00
599     MgO coefficient = 0.000000E+00
600     Mg(OH)2 coefficient = 0.000000E+00
601     MgCO3 coefficient = 0.000000E+00
603     Stoichiometric coeff's for Rxn 3:
604     H2 coefficient = 0.000000E+00
605     H2O coefficient = 0.000000E+00
606     Fe coefficient = 0.000000E+00
```

```
  607     Bio coefficient = 0.000000E+00
  608     Fe(OH)2 coefficient = 0.000000E+00
  609     FeS coefficient = 0.000000E+00
  610     MgO coefficient = 0.000000E+00
  611     Mg(OH)2 coefficient = 0.000000E+00
  612     MgCO3 coefficient = 0.000000E+00
  614     Stoichiometric coeff's for Rxn 4:
  615     H2 coefficient = 0.000000E+00
  616     H2O coefficient = 0.000000E+00
  617     Fe coefficient = 0.000000E+00
  618     Bio coefficient = 0.000000E+00
  619     Fe(OH)2 coefficient = 0.000000E+00
  620     FeS coefficient = 0.000000E+00
  621     MgO coefficient = 0.000000E+00
  622     Mg(OH)2 coefficient = 0.000000E+00
  623     MgCO3 coefficient = 0.000000E+00
  625     Stoichiometric coeff's for Rxn 5:
  626     H2 coefficient = 0.000000E+00
  627     H2O coefficient = 0.000000E+00
  628     Fe coefficient = 0.000000E+00
  629     Bio coefficient = 0.000000E+00
  630     Fe(OH)2 coefficient = 0.000000E+00
  631     FeS coefficient = 0.000000E+00
  632     MgO coefficient = 0.000000E+00
  633     Mg(OH)2 coefficient = 0.000000E+00
  634     MgCO3 coefficient = 0.000000E+00
  636     Stoichiometric coeff's for Rxn 6:
  637     H2 coefficient = 0.000000E+00
  638     H2O coefficient = 0.000000E+00
  639     Fe coefficient = 0.000000E+00
  640     Bio coefficient = 0.000000E+00
  641     Fe(OH)2 coefficient = 0.000000E+00
  642     FeS coefficient = 0.000000E+00
  643     MgO coefficient = 0.000000E+00
  644     Mg(OH)2 coefficient = 0.000000E+00
  645     MgCO3 coefficient = 0.000000E+00
  647     Stoichiometric coeff's for Rxn 7:
  648     H2 coefficient = 0.000000E+00
  649     H2O coefficient = 0.000000E+00
  650     Fe coefficient = 0.000000E+00
  651     Bio coefficient = 0.000000E+00
  652     Fe(OH)2 coefficient = 0.000000E+00
  653     FeS coefficient = 0.000000E+00
  654     MgO coefficient = 0.000000E+00
  655     Mg(OH)2 coefficient = 0.000000E+00
  656     MgCO3 coefficient = 0.000000E+00
  658     Wicking term (SATWICK) = 0.000000E+00
  659     Humid rates to be smoothed? (LARXN) = F
  660     Concentration rates to be smoothed? (LARXN2) = F
  661     Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  663     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  554     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  555     Gas coefficient = 1.068300E+00
  556     H2O coefficient = 1.863300E+00
  557     Fe coefficient = 1.000000E+00
  559     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  560     Gas coefficient = 1.229000E+00
  561     H2O coefficient = 0.000000E+00
  562     Bio coefficient = 1.000000E+00
  564     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  667     Bio: 2.7023E-02 kg/mol
  669     Molecular weights (WM):
  670     Fe(OH)2: 8.9862E-02 kg/mol
  671     FeS: 8.7900E-02 kg/mol
  672     MgO: 4.0304E-02 kg/mol
  673     Mg(OH)2: 5.8320E-02 kg/mol
```

```
  674     MgCO3: 8.4314E-02 kg/mol
  676     Densities (DEN(1-4)):
  677     Fe: 7.8700E+03 kg/m3
  678     Fe(OH)2: 3.4000E+03 kg/m3
  679     FeS: 4.7000E+03 kg/m3
  680     Bio: 1.1000E+03 kg/m3
  682     Densities (DEN(5-8)):
  683     MgO: 3.6000E+03 kg/m3
  684     Mg(OH)2: 2.3700E+03 kg/m3
  685     MgCO3: 3.0500E+03 kg/m3
  686     SALT: 2.1700E+03 kg/m3
  688     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  568     Bio: 3.0026E-02 kg/mol
  570     Wicking term (SATWICK) = 0.000000E+00
  571     Humid rates to be smoothed? (LARXN) = F
  572     Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  574     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  828     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  831    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  714     Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  717    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  891     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  894    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  777     Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  780    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  902     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  903     CPU Time (total for run) = 0.08 sec = 0.00002 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  788     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  789     CPU Time (total for run) = 0.08 sec = 0.00002 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  954     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  959    ******************************************************************************
  960     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  961     * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  962    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
  840     Date: 04/06/06 Time: 15:37:06 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  845    ******************************************************************************
  846     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  847     * Completed: 04/06/06 at 15:37:06 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  848    ******************************************************************************
************

Number of difference sections found: 16
Number of difference records found: 198

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_VMS82_V500_ES47_TEST2.OUT;1
```

A.2.4 Test Case 2: Output Difference Files, BF2_QB0600_ES40_TEST2_OUT.DIF and BF2_QB0600_ES45_TEST2_OUT.DIF

BF2_QB0600_ES40_TEST2_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
    3     ** Begun on: 02/14/07 at 08:52:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_TEST2.INP;1
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  777     CPU Time (total for run) = 0.08 sec = 0.00002 hr
  778     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  777     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  778     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  828     Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  831     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  828     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  831     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  840     CPU Time (total for run) = 0.10 sec = 0.00003 hr
  841     ********************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  840    CPU Time (total for run) = 0.07 sec = 0.00002 hr
  841    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  891    Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
  894    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  891    Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  894    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  903    CPU Time (total for run) = 0.11 sec = 0.00003 hr
  904    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  903    CPU Time (total for run) = 0.08 sec = 0.00002 hr
  904    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1
  954    Date: 02/14/07 Time: 08:52:41 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
  959    ****************************************************************************
  960    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  961    * Completed: 02/14/07 at 08:52:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  962    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  954    Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  959    ****************************************************************************
  960    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  961    * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  962    ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 14

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES40_TEST2.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
```

BF2_QB0600_ES45_TEST2_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
    3    ** Begun on: 02/14/07 at 09:14:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
    3    ** Begun on: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_TEST2.INP;1
   62    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_TEST2.INP;1
   62    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_CLOSURE.DAT;1
   67    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_CLOSURE.DAT;1
```

```
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST2]BF2_QB0600_ES47_TEST2.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
  828     Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  831     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  828     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  831     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
  891     Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  894     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  891     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  894     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1
  954     Date: 02/14/07 Time: 09:14:49 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  959     ****************************************************************************
  960     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  961     * Completed: 02/14/07 at 09:14:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  962     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
  954     Date: 02/13/07 Time: 14:11:36 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  959     ****************************************************************************
  960     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  961     * Completed: 02/13/07 at 14:11:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  962     ****************************************************************************
************

Number of difference sections found: 8
Number of difference records found: 11

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES45_TEST2.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST2]BF2_QB0600_ES47_TEST2.OUT;1
```

A.3 Test Case 3 Files

A.3.1 Test Case 3: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST3_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST3.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test3.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test3.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test3.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test3.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test3.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST3_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST3.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test3.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test3.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test3.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test3.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test3.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST3_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST3.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST3_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test3.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test3.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test3.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test3.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test3.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.3.2 Test Case 3: Input File, BF2_QB0600_TEST3.INP

```
1D HORIZONTAL INFILTRATION BENCHMARK PROBLEM
FILES TO USE:  ASCII, BINARY, SUMMARY, RESTART OUT, RESTART IN
   T    F    T    F    F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   41    1    1
TSTART,    TMAX,       MAXSTEPS
 0.0   9504.   5000
DT_INIT,  DT_MIN,    DT_MAX,    DT_INCR, IAUTODT, TSWITCH
  1.0  1.0   1000.   1.5000E+00  1      1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
 0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    0     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 864.  5184.
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  100
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  100
ASCII PRINT FLAGS
1 1 0 0 0  0 1 1 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  0 0 0 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLES
0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
   1
MONITOR BLOCK (I,J,K)
   2    1    1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    1    1    0
GRID DATA CARDS: GRID BLOCK DX'S
   0.000001  40*0.005
GRID DATA CARDS: GRID BLOCK DY'S
   41*1.0
GRID DATA CARDS: GRID BLOCK DZ'S
   41*1.0
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
   1    1     1 0.000000E+00 9.000000E+01 0.000000E+00 0.000000E+00
WELL DATA
 0
DIRICHLET CONDITIONS
 T    1
 1  1  1  T  T  109525.  1.0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 109525.  40*1.013250E+05
```

```
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
1.0   40*0.44444444
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
41*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
41*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1), DDEPMAX(2)
  1.0000     1.E7
CONVERGENCE TEST FLAG:  0=OR/1=AND
  1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
EPS_SAT, EPS_PRES:  LOOSER CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
FTOL_SAT, FTOL_PRES:  NORMAL RESIDUALS TOLERANCE
  1.0000E-07    1.0000E-07
FTOL_SAT, FTOL_PRES:  LOOSER RESIDUALS TOLERANCE
  1.0000E-07    1.0000E-07
EPSGAS:  RXN PATH TOLS
  4*1.E-4
SOLVER
  LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
  40      40        1         T        1.E7      F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40           40    5.0000E-01   1      0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40           40        40         40          40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
41*1
 #     NAME
 1     WASTE
NWST
  0
NDRZ
  0
NMATRESET
  0
MAT_BOREHOLE
  1
RESET TIME,  ICWASTE
 0.0          0
POWASTEIC
 0.0
SOWASTEIC
 0.0
PRESDRZ
 0.0
NBORERESET
 0
 #    LAMBDA      SOR       SGR
 1  1.517E+00  0.3333333   0.0
 #    SBMIN  POMIN  PCMAX  PCT_A   PCT_EXP    KRP KPC  KPT
 1  0.34   1.01325E5 9807.   0.0    -0.2865812  5   2    1
 #  PERMX       PERMY       PERMZ     POROSITY   COMPRES
 1 1.18E-14   1.18E-14   1.18E-14     0.45      0.0E-00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
 F
```

```
 KLINKENBERG EFFECT
  F
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01325E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
 0.0        1.00E+03   0      0    0.0000E-00 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.0000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, O2, AND H2S
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00   1    1
 GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0  0.0   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0   0.0
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0  0.0
 RATE COEFFICIENTS: RXH2S AND RXCO2
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATN, HUMID SMOOTHING, ALPHARXN
  0.0    F  F  2000.
 WILL CREEP CLOSURE BE ACTIVATED?
  F
 WILL RADIONUCLIDE DECAY BE ACTIVATED?
  F
 WILL TRANSPORT BE CALCULATED?
  F
```

```
 RXN PATH?
  F
```

A.3.3 Test Case 3: Output Difference File, BF2_QB0600_ES47_TEST3_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/06/06 at 15:41:53 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_TEST3_QA0500.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  125     Restart output timestep interval (IPRNTRST) = 100
  127
**********************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  125     Restart output timestep interval (IPRNTRST) =100
  127
**********************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
```

178   43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s

```
44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
```

```
 249     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 250     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 251     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 252     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 253     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 254     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 255     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 256     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 257     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 258     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 259     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 261
************************************************************************************************
**************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
 178     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 179     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 180     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 181     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 182     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
 183     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 184     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 185     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 186     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 187     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 188     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 189     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 190     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 191     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 192     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 193     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 194     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 195     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 196     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 197     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 198     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 199     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 200     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 201     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 202     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 203     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 204     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 205     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 206     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 207     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 208     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 209     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 210     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 211     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 212     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 213     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 214     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 215     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 216     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 217     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 218     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 219     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 220     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 221     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 222     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 223     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 224     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 225     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 226     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 227     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 228     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 229     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 230     95 0 0 H2OFLOWIN Water inflow rate kg/s
 231     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 232     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 233     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 234     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 235     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 236     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
```

```
  237     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  238     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  239     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  240     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  241     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  242     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  244
****************************************************************************************************
**************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  430     instead of Input IC's for the Cavities
  431     [0=No, 1=Yes] (ICWASTE) = 0
  433     Uniform Cavity Region
  434     Uniform Cavity Region
  436     ----------------------------------------------------------------------------------------------
-----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  413     instead of Input IC's for the Waste
  414     [0=No, 1=Yes] (ICWASTE) = 0
  416     Uniform Waste Region
  417     Uniform Waste Region
  419     ----------------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  465     TOL = 1.0000E-02
  466     SOCEFFMIN = 1.0000E-03
  468     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  449     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  567     Intrinsic reaction rate constants? (LINTRIN): F
  569     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  548     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  577     MgO hydration reaction rate constants:
  578     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  579     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  581     Saturation cutoff value (SOCMIN): 0.000000E+00
  583     Stoichiometric coeff's for Rxn 1:
  584     H2 coefficient = 0.000000E+00
  585     H2O coefficient = 0.000000E+00
  586     Fe coefficient = 0.000000E+00
  587     Bio coefficient = 0.000000E+00
  588     Fe(OH)2 coefficient = 0.000000E+00
  589     FeS coefficient = 0.000000E+00
  590     MgO coefficient = 0.000000E+00
  591     Mg(OH)2 coefficient = 0.000000E+00
  592     MgCO3 coefficient = 0.000000E+00
  594     Stoichiometric coeff's for Rxn 2:
  595     H2 coefficient = 0.000000E+00
  596     H2O coefficient = 0.000000E+00
  597     Fe coefficient = 0.000000E+00
  598     Bio coefficient = 0.000000E+00
  599     Fe(OH)2 coefficient = 0.000000E+00
  600     FeS coefficient = 0.000000E+00
  601     MgO coefficient = 0.000000E+00
  602     Mg(OH)2 coefficient = 0.000000E+00
  603     MgCO3 coefficient = 0.000000E+00
  605     Stoichiometric coeff's for Rxn 3:
  606     H2 coefficient = 0.000000E+00
  607     H2O coefficient = 0.000000E+00
```

```
  608     Fe coefficient = 0.000000E+00
  609     Bio coefficient = 0.000000E+00
  610     Fe(OH)2 coefficient = 0.000000E+00
  611     FeS coefficient = 0.000000E+00
  612     MgO coefficient = 0.000000E+00
  613     Mg(OH)2 coefficient = 0.000000E+00
  614     MgCO3 coefficient = 0.000000E+00
  616     Stoichiometric coeff's for Rxn 4:
  617     H2 coefficient = 0.000000E+00
  618     H2O coefficient = 0.000000E+00
  619     Fe coefficient = 0.000000E+00
  620     Bio coefficient = 0.000000E+00
  621     Fe(OH)2 coefficient = 0.000000E+00
  622     FeS coefficient = 0.000000E+00
  623     MgO coefficient = 0.000000E+00
  624     Mg(OH)2 coefficient = 0.000000E+00
  625     MgCO3 coefficient = 0.000000E+00
  627     Stoichiometric coeff's for Rxn 5:
  628     H2 coefficient = 0.000000E+00
  629     H2O coefficient = 0.000000E+00
  630     Fe coefficient = 0.000000E+00
  631     Bio coefficient = 0.000000E+00
  632     Fe(OH)2 coefficient = 0.000000E+00
  633     FeS coefficient = 0.000000E+00
  634     MgO coefficient = 0.000000E+00
  635     Mg(OH)2 coefficient = 0.000000E+00
  636     MgCO3 coefficient = 0.000000E+00
  638     Stoichiometric coeff's for Rxn 6:
  639     H2 coefficient = 0.000000E+00
  640     H2O coefficient = 0.000000E+00
  641     Fe coefficient = 0.000000E+00
  642     Bio coefficient = 0.000000E+00
  643     Fe(OH)2 coefficient = 0.000000E+00
  644     FeS coefficient = 0.000000E+00
  645     MgO coefficient = 0.000000E+00
  646     Mg(OH)2 coefficient = 0.000000E+00
  647     MgCO3 coefficient = 0.000000E+00
  649     Stoichiometric coeff's for Rxn 7:
  650     H2 coefficient = 0.000000E+00
  651     H2O coefficient = 0.000000E+00
  652     Fe coefficient = 0.000000E+00
  653     Bio coefficient = 0.000000E+00
  654     Fe(OH)2 coefficient = 0.000000E+00
  655     FeS coefficient = 0.000000E+00
  656     MgO coefficient = 0.000000E+00
  657     Mg(OH)2 coefficient = 0.000000E+00
  658     MgCO3 coefficient = 0.000000E+00
  660     Wicking term (SATWICK) = 0.000000E+00
  661     Humid rates to be smoothed? (LARXN) = F
  662     Concentration rates to be smoothed? (LARXN2) = F
  663     Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  665     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  556     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  557     Gas coefficient = 1.068300E+00
  558     H2O coefficient = 1.863300E+00
  559     Fe coefficient = 1.000000E+00
  561     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  562     Gas coefficient = 1.229000E+00
  563     H2O coefficient = 0.000000E+00
  564     Bio coefficient = 1.000000E+00
  566     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  669     Bio: 2.7023E-02 kg/mol
  671     Molecular weights (WM):
  672     Fe(OH)2: 8.9862E-02 kg/mol
  673     FeS: 8.7900E-02 kg/mol
  674     MgO: 4.0304E-02 kg/mol
```

```
  675     Mg(OH)2: 5.8320E-02 kg/mol
  676     MgCO3: 8.4314E-02 kg/mol
  678     Densities (DEN(1-4)):
  679     Fe: 7.8700E+03 kg/m3
  680     Fe(OH)2: 3.4000E+03 kg/m3
  681     FeS: 4.7000E+03 kg/m3
  682     Bio: 1.1000E+03 kg/m3
  684     Densities (DEN(5-8)):
  685     MgO: 3.6000E+03 kg/m3
  686     Mg(OH)2: 2.3700E+03 kg/m3
  687     MgCO3: 3.0500E+03 kg/m3
  688     SALT: 2.1700E+03 kg/m3
  690     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  570     Bio: 3.0026E-02 kg/mol
  572     Wicking term (SATWICK) = 0.000000E+00
  573     Humid rates to be smoothed? (LARXN) = F
  574     Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  576     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  779     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  780     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  665     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  666     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  830     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  716     Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  719     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  842     CPU Time (total for run) = 0.07 sec = 0.00002 hr
  843     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  728     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  729     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  893     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  779     Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  782     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  905     CPU Time (total for run) = 0.08 sec = 0.00002 hr
  906     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
  791     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  792     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  956     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961     ****************************************************************************
  962     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  963     * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  964     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
```

```
  842     Date: 04/06/06 Time: 15:41:53 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  847     ****************************************************************************
  848     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  849     * Completed: 04/06/06 at 15:41:53 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  850     ****************************************************************************
************

Number of difference sections found: 18
Number of difference records found: 200

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_VMS82_V500_ES47_TEST3.OUT;1
```

A.3.4 Test Case 3: Output Difference Files, BF2_QB0600_ES40_TEST3_OUT.DIF and BF2_QB0600_ES45_TEST3_OUT.DIF

BF2_QB0600_ES40_TEST3_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
    3     ** Begun on: 02/14/07 at 08:52:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_TEST3.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  779     CPU Time (total for run) = 0.08 sec = 0.00002 hr
  780     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  779     CPU Time (total for run) = 0.06 sec = 0.00002 hr
```

```
  780   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  830    Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  833   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  830    Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  841    CPU Time (this time step) = 0.00 sec = 0.00000 hr
  842    CPU Time (total for run) = 0.10 sec = 0.00003 hr
  843   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  841    CPU Time (this time step) = 0.01 sec = 0.00000 hr
  842    CPU Time (total for run) = 0.07 sec = 0.00002 hr
  843   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  893    Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
  896   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  893    Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  905    CPU Time (total for run) = 0.11 sec = 0.00003 hr
  906   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  905    CPU Time (total for run) = 0.08 sec = 0.00002 hr
  906   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1
  956    Date: 02/14/07 Time: 08:52:46 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
  961    ********************************************************************************
  962    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  963    * Completed: 02/14/07 at 08:52:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  964    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  956    Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961    ********************************************************************************
  962    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  963    * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  964    ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 15

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES40_TEST3.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
```

BF2_QB0600_ES45_TEST3_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
    3    ** Begun on: 02/14/07 at 09:14:54 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
    3    ** Begun on: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_TEST3.INP;1
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_TEST3.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST3]BF2_QB0600_ES47_TEST3.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  830     Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  830     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  833    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  841     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  842     CPU Time (total for run) = 0.07 sec = 0.00002 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  841     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  842     CPU Time (total for run) = 0.07 sec = 0.00002 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  893     Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  893     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  896    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1
  956     Date: 02/14/07 Time: 09:14:54 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961     ********************************************************************************
  962     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  963     * Completed: 02/14/07 at 09:14:54 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  964     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
  956     Date: 02/13/07 Time: 14:11:35 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  961     ********************************************************************************
  962     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
```

```
  963     * Completed: 02/13/07 at 14:11:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  964     ******************************************************************************
************

Number of difference sections found: 9
Number of difference records found: 12

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES45_TEST3.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST3]BF2_QB0600_ES47_TEST3.OUT;1
```

A.4 Test Case 4 Files

A.4.1 Test Case 4: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST4_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST4.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test4.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test4.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test4.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test4.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test4.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST4_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST4.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test4.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test4.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test4.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test4.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test4.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST4_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST4.INP
$   DEFINE bf2_uifold$input  working_dir:BF2_TEST4_QA0500.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test4.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test4.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test4.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test4.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test4.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.4.2 Test Case 4: Input File, BF2_QB0600_TEST4.INP

```
2D VERTICAL INFILTRATION BENCHMARK PROBLEM
  FILES:  ASCII, BINARY, SUMMARY, RESTART OUTPUT, RESTART INPUT
  T  F  T  F  F
  MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
     2   21   18    1
  TSTART,   TMAX,       MAXSTEPS
   0.0     28800.         1000
  DT_INIT,  DT_MIN,   DT_MAX,    DT_INCR, IAUTODT, TSWITCH
    0.1      0.1       300.   1.5000E+00    1      1.0000E-02
  TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   0
  IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
     2     0     0     'SI'     'SI'
  ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
     3
  USER REQUESTED PRINTOUT TIMES
   3600.  7200.  28800.
  BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
    100
  RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    100
  ASCII PRINT FLAGS
  1 1 0 0 0  0 1 1 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  BINARY PRINT FLAGS
  1 1 0 0 0  0 0 0 0 0  0 0 0 0 0  0 1 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  HISTORY VARIABLES
  0
  MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
  T
  NUMBER OF MONITOR BLOCKS
     1
  MONITOR BLOCK (I,J,K)
     1   10     1
  GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1    2    1   -3
  GRID DATA CARDS: GRID BLOCK DX'S
     0.115  0.15  0.15   0.085 0.075 0.14  0.15  0.15  0.15  0.15
     0.15   0.15  0.15   0.15  0.15  0.155 0.18  0.20  0.20  0.20
     2.00             1.0E-4
  GRID DATA CARDS: GRID BLOCK DY'S
     0.30  0.20  0.10  0.05  0.05  0.10  0.10  0.10  0.10  0.10
     0.10  0.10  0.10  0.10  0.10  0.10  0.10  0.10
  GRID DATA CARDS: GRID BLOCK DZ'S
     20*1.0  1.E6
  GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
     1    1    1   0.000000E+00 9.000000E+01 0.000000E+00 0.000000E+00
  WELL DATA
   1
  0.0  4
  1  18  1  1
```

```
INJQ
0.0  0.0047201  1.0  1.E-5
2  18  1  1
INJQ
0.0  0.0061566  1.0  1.E-5
3  18  1  1
INJQ
0.0  0.0061566  1.0  1.E-5
4  18  1  1
INJQ
0.0  0.0034888  1.0  1.E-5
DIRICHLET CONDITIONS
F   0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
21*0.10622565D+06
21*0.10377783D+06
21*0.10230913D+06
21*0.10157478D+06
20*0.10108522D+06  0.101330D+06
20*0.10035087D+06  0.101330D+06
20*0.99371738D+05  0.101330D+06
20*0.98392607D+05  0.101330D+06
20*0.97413476D+05  0.101330D+06
20*0.96434346D+05  0.101330D+06
20*0.95455215D+05  0.101330D+06
20*0.94476084D+05  0.101330D+06
20*0.93496953D+05  0.101330D+06
20*0.92517822D+05  0.101330D+06
20*0.91538691D+05  0.101330D+06
20*0.90559560D+05  0.101330D+06
20*0.89580429D+05  0.101330D+06
20*0.88601299D+05  0.101330D+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
21*0.10000000D+01
21*0.10000000D+01
21*0.10000000D+01
21*0.10000000D+01
20*0.99964370D+00  0.000000D+00
20*0.98052838D+00  0.000000D+00
20*0.87090754D+00  0.000000D+00
20*0.67549792D+00  0.000000D+00
20*0.47474155D+00  0.000000D+00
20*0.32120575D+00  0.000000D+00
20*0.21806666D+00  0.000000D+00
20*0.15135593D+00  0.000000D+00
20*0.10800850D+00  0.000000D+00
20*0.79232753D-01  0.000000D+00
20*0.59616072D-01  0.000000D+00
20*0.45879896D-01  0.000000D+00
20*0.36016551D-01  0.000000D+00
20*0.28770300D-01  0.000000D+00
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
378*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
378*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
378*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1), DDEPMAX(2)
  1.0000     1.E7
CONVERGENCE TEST FLAG:  0=OR/1=AND
  1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  7.0000E+00   1.0000E-07
EPS_SAT, EPS_PRES:  LOOSER CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
FTOL_SAT, FTOL_PRES:  NORMAL RESIDUALS TOLERANCE
  1.0000E-06    1.0000E-06
FTOL_SAT, FTOL_PRES:  LOOSER RESIDUALS TOLERANCE
  1.0000E-06    1.0000E-06
EPSGAS:  RXN PATH TOLS
  4*1.E-6
SOLVER TYPE
```

```
  LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
  40      40        1        T       1.E7        F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40          40      5.0000E-01   1       0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40          40         40         40          40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
21*1
21*1
21*1
21*1
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
20*1 2
 #     NAME
 1     WASTE
 2     BOUNDARY
NWST
  0
NDRZ
  0
NMATRESET
  0
MAT_BOREHOLE
  1
RESET TIME,  ICWASTE
 0.0          0
POWASTEIC
 0.0
SOWASTEIC
 0.0
PRESDRZ
 0.0
NBORERESET
 0
 #    LAMBDA      SOR       SGR
 1  1.517E+00     0.0       0.1
 2  1.000E+00     0.0       0.0
 #    SBMIN   POMIN     PCMAX    PCT_A      PCT_EXP  KRP KPC KPT
 1  0.0      1.01330E5  1.E8  6.40601E+06    0.0     9   1   0
 2  0.0      1.01330E5  1.E8  0.0            0.0     10  1   0
 #    PERMX     PERMY       PERMZ    POROSITY   COMPRES
 1 9.95E-12   9.95E-12   9.95E-12    0.3        0.0
 2 9.95E-12   9.95E-12   9.95E-12    0.3        0.0
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL
 F
KLINKENBERG EFFECT
 F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 293.15  1.01330D+05
```

```
SALT(WT.%)  DEN_BR   KGSAT   IDGAS   COMPR_BR WMSALT WMH2O
0.0      0.9984E+03    0       0    2.5000E-10 58.442468D-03  18.01528D-03
VISC_BR    VISC_GAS
 1.0000E-03  17.9E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
0
GAS MOLE FRACTIONS FOR H2, CO2, CH4, AND N2
0.0000E+00 0.0000E+00 0.0000E+00 1.0000E+00 0.0000E+00 0.0000E+00
GAS MOLE CULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  4
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00   304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05   73.76D+05  46.17D+05  33.94D+05  90.07D+05   50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0  0.0  F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0   0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
 0.0    F  F  2000.
WILL CREEP CLOSURE BE ACTIVATED?  IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED
 F     0
WILL TRANSPORT BE CALCULATED?
 F
WILL RADIONUCLIDE DECAY BE ACTIVATED?
 F
RXN PATH?
 F
```

A.4.3 Test Case 4: Output Difference File, BF2_QB0600_ES47_TEST4_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/06/06 at 15:43:40 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_TEST4_QA0500.INP;2
   62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  126     Restart output timestep interval (IPRNTRST) = 100
  128
*********************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  126     Restart output timestep interval (IPRNTRST) =100
  128
*********************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  179     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  180     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  181     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  182     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  183     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
```

```
48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
```

```
  254     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  255     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  256     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  257     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  258     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  259     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  260     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  262
************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  179     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  180     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  181     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  182     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  183     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  184     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  185     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  186     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  187     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  188     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  189     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  190     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  191     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  192     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  193     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  194     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  195     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  196     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  197     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  198     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  199     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  200     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  201     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  202     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  203     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  204     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  205     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  206     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  207     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  208     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  209     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  210     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  211     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  212     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  213     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  214     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  215     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  216     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  217     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  218     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  219     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  220     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  221     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  222     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  223     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  224     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  225     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  226     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  227     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  228     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  229     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  230     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  231     95 0 0 H2OFLOWIN Water inflow rate kg/s
  232     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  233     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  234     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  235     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  236     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  237     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  238     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  239     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  240     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  241     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
```

```
  242     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  243     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  245
************************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  473     instead of Input IC's for the Cavities
  474     [0=No, 1=Yes] (ICWASTE) = 0
  476     Uniform Cavity Region
  477     Uniform Cavity Region
  479     ----------------------------------------------------------------------------------------
-----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  456     instead of Input IC's for the Waste
  457     [0=No, 1=Yes] (ICWASTE) = 0
  459     Uniform Waste Region
  460     Uniform Waste Region
  462     ----------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  509     TOL = 1.0000E-02
  510     SOCEFFMIN = 1.0000E-03
  512     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  493     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  611     Intrinsic reaction rate constants? (LINTRIN): F
  613     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  592     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  621     MgO hydration reaction rate constants:
  622     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  623     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  625     Saturation cutoff value (SOCMIN): 0.000000E+00
  627     Stoichiometric coeff's for Rxn 1:
  628     H2 coefficient = 0.000000E+00
  629     H2O coefficient = 0.000000E+00
  630     Fe coefficient = 0.000000E+00
  631     Bio coefficient = 0.000000E+00
  632     Fe(OH)2 coefficient = 0.000000E+00
  633     FeS coefficient = 0.000000E+00
  634     MgO coefficient = 0.000000E+00
  635     Mg(OH)2 coefficient = 0.000000E+00
  636     MgCO3 coefficient = 0.000000E+00
  638     Stoichiometric coeff's for Rxn 2:
  639     H2 coefficient = 0.000000E+00
  640     H2O coefficient = 0.000000E+00
  641     Fe coefficient = 0.000000E+00
  642     Bio coefficient = 0.000000E+00
  643     Fe(OH)2 coefficient = 0.000000E+00
  644     FeS coefficient = 0.000000E+00
  645     MgO coefficient = 0.000000E+00
  646     Mg(OH)2 coefficient = 0.000000E+00
  647     MgCO3 coefficient = 0.000000E+00
  649     Stoichiometric coeff's for Rxn 3:
  650     H2 coefficient = 0.000000E+00
  651     H2O coefficient = 0.000000E+00
  652     Fe coefficient = 0.000000E+00
  653     Bio coefficient = 0.000000E+00
  654     Fe(OH)2 coefficient = 0.000000E+00
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  655    FeS coefficient = 0.000000E+00
  656    MgO coefficient = 0.000000E+00
  657    Mg(OH)2 coefficient = 0.000000E+00
  658    MgCO3 coefficient = 0.000000E+00
  660    Stoichiometric coeff's for Rxn 4:
  661    H2 coefficient = 0.000000E+00
  662    H2O coefficient = 0.000000E+00
  663    Fe coefficient = 0.000000E+00
  664    Bio coefficient = 0.000000E+00
  665    Fe(OH)2 coefficient = 0.000000E+00
  666    FeS coefficient = 0.000000E+00
  667    MgO coefficient = 0.000000E+00
  668    Mg(OH)2 coefficient = 0.000000E+00
  669    MgCO3 coefficient = 0.000000E+00
  671    Stoichiometric coeff's for Rxn 5:
  672    H2 coefficient = 0.000000E+00
  673    H2O coefficient = 0.000000E+00
  674    Fe coefficient = 0.000000E+00
  675    Bio coefficient = 0.000000E+00
  676    Fe(OH)2 coefficient = 0.000000E+00
  677    FeS coefficient = 0.000000E+00
  678    MgO coefficient = 0.000000E+00
  679    Mg(OH)2 coefficient = 0.000000E+00
  680    MgCO3 coefficient = 0.000000E+00
  682    Stoichiometric coeff's for Rxn 6:
  683    H2 coefficient = 0.000000E+00
  684    H2O coefficient = 0.000000E+00
  685    Fe coefficient = 0.000000E+00
  686    Bio coefficient = 0.000000E+00
  687    Fe(OH)2 coefficient = 0.000000E+00
  688    FeS coefficient = 0.000000E+00
  689    MgO coefficient = 0.000000E+00
  690    Mg(OH)2 coefficient = 0.000000E+00
  691    MgCO3 coefficient = 0.000000E+00
  693    Stoichiometric coeff's for Rxn 7:
  694    H2 coefficient = 0.000000E+00
  695    H2O coefficient = 0.000000E+00
  696    Fe coefficient = 0.000000E+00
  697    Bio coefficient = 0.000000E+00
  698    Fe(OH)2 coefficient = 0.000000E+00
  699    FeS coefficient = 0.000000E+00
  700    MgO coefficient = 0.000000E+00
  701    Mg(OH)2 coefficient = 0.000000E+00
  702    MgCO3 coefficient = 0.000000E+00
  704    Wicking term (SATWICK) = 0.000000E+00
  705    Humid rates to be smoothed? (LARXN) = F
  706    Concentration rates to be smoothed? (LARXN2) = F
  707    Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  709    Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  600    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  601    Gas coefficient = 1.068300E+00
  602    H2O coefficient = 1.863300E+00
  603    Fe coefficient = 1.000000E+00
  605    Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  606    Gas coefficient = 1.229000E+00
  607    H2O coefficient = 0.000000E+00
  608    Bio coefficient = 1.000000E+00
  610    Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
  713    Bio: 2.7023E-02 kg/mol
  715    Molecular weights (WM):
  716    Fe(OH)2: 8.9862E-02 kg/mol
  717    FeS: 8.7900E-02 kg/mol
  718    MgO: 4.0304E-02 kg/mol
  719    Mg(OH)2: 5.8320E-02 kg/mol
  720    MgCO3: 8.4314E-02 kg/mol
  722    Densities (DEN(1-4)):
```

```
  723     Fe: 7.8700E+03 kg/m3
  724     Fe(OH)2: 3.4000E+03 kg/m3
  725     FeS: 4.7000E+03 kg/m3
  726     Bio: 1.1000E+03 kg/m3
  728     Densities (DEN(5-8)):
  729     MgO: 3.6000E+03 kg/m3
  730     Mg(OH)2: 2.3700E+03 kg/m3
  731     MgCO3: 3.0500E+03 kg/m3
  732     SALT: 2.1700E+03 kg/m3
  734     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
  614     Bio: 3.0026E-02 kg/mol
  616     Wicking term (SATWICK) = 0.000000E+00
  617     Humid rates to be smoothed? (LARXN) = F
  618     Humid rate smoothing factor (ALPHARXN) = 2.000000E+03
  620     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1189     CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1190     CPU Time (total for run) = 2.26 sec = 0.00063 hr
 1191    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1075     CPU Time (this time step) = 0.05 sec = 0.00001 hr
 1076     CPU Time (total for run) = 1.65 sec = 0.00046 hr
 1077    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1486     Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
 1489    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1372     Date: 04/06/06 Time: 15:43:42 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) ASCII
 1375    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1497     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1498     CPU Time (total for run) = 3.28 sec = 0.00091 hr
 1499    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1383     CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1384     CPU Time (total for run) = 2.39 sec = 0.00066 hr
 1385    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1794     Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
 1797    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1680     Date: 04/06/06 Time: 15:43:43 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) ASCII
 1683    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1805     CPU Time (this time step) = 0.06 sec = 0.00002 hr
 1806     CPU Time (total for run) = 8.38 sec = 0.00233 hr
 1807    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1691     CPU Time (this time step) = 0.04 sec = 0.00001 hr
 1692     CPU Time (total for run) = 6.05 sec = 0.00168 hr
 1693    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 2102     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
 2107     ******************************************************************************
 2108     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 2109     * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
```

```
 2110     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
 1988     Date: 04/06/06 Time: 15:43:46 CPU Time: 0 0: 0: 6.06 ( 6.06 sec) ASCII
 1993     ********************************************************************************
 1994     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 1995     * Completed: 04/06/06 at 15:43:46 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 1996     ********************************************************************************
************

Number of difference sections found: 18
Number of difference records found: 203

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_VMS82_V500_ES47_TEST4.OUT;1
```

A.4.4 Test Case 4: Output Difference Files, BF2_QB0600_ES40_TEST4_OUT.DIF and BF2_QB0600_ES45_TEST4_OUT.DIF

BF2_QB0600_ES40_TEST4_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
    3     ** Begun on: 02/14/07 at 08:52:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_TEST4.INP;1
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 1189     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1190     CPU Time (total for run) = 3.26 sec = 0.00091 hr
```

```
 1191    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1189     CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1190     CPU Time (total for run) = 2.26 sec = 0.00063 hr
 1191    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 1486     Date: 02/14/07 Time: 08:52:55 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) ASCII
 1489    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1486     Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
 1489    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 1497     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 1498     CPU Time (total for run) = 4.74 sec = 0.00132 hr
 1499    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1497     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1498     CPU Time (total for run) = 3.28 sec = 0.00091 hr
 1499    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 1794     Date: 02/14/07 Time: 08:52:56 CPU Time: 0 0: 0: 4.75 ( 4.75 sec) ASCII
 1797    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1794     Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
 1797    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 1805     CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1806     CPU Time (total for run) = 12.09 sec = 0.00336 hr
 1807    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1805     CPU Time (this time step) = 0.06 sec = 0.00002 hr
 1806     CPU Time (total for run) = 8.38 sec = 0.00233 hr
 1807    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1
 2102     Date: 02/14/07 Time: 08:53:04 CPU Time: 0 0: 0:12.10 ( 12.10 sec) ASCII
 2107     ****************************************************************************
 2108     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 2109     * Completed: 02/14/07 at 08:53:04 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 2110    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 2102     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
 2107     ****************************************************************************
 2108     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 2109     * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 2110    ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 17

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES40_TEST4.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
```

BF2_QB0600_ES45_TEST4_OUT.DIF

```
************
```

```
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
    3     ** Begun on: 02/14/07 at 09:14:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_TEST4.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_TEST4.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST4]BF2_QB0600_ES47_TEST4.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1189     CPU Time (this time step) = 0.07 sec = 0.00002 hr
 1190     CPU Time (total for run) = 2.12 sec = 0.00059 hr
 1191     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1189     CPU Time (this time step) = 0.08 sec = 0.00002 hr
 1190     CPU Time (total for run) = 2.26 sec = 0.00063 hr
 1191     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1486     Date: 02/14/07 Time: 09:15:00 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) ASCII
 1489     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1486     Date: 02/13/07 Time: 14:11:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) ASCII
 1489     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1498     CPU Time (total for run) = 3.08 sec = 0.00086 hr
 1499     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1498     CPU Time (total for run) = 3.28 sec = 0.00091 hr
 1499     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1794     Date: 02/14/07 Time: 09:15:01 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) ASCII
```

```
 1797    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1794     Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) ASCII
 1797    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 1805     CPU Time (this time step) = 0.05 sec = 0.00001 hr
 1806     CPU Time (total for run) = 7.79 sec = 0.00216 hr
 1807    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 1805     CPU Time (this time step) = 0.06 sec = 0.00002 hr
 1806     CPU Time (total for run) = 8.38 sec = 0.00233 hr
 1807    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1
 2102     Date: 02/14/07 Time: 09:15:06 CPU Time: 0 0: 0: 7.80 ( 7.80 sec) ASCII
 2107    *********************************************************************************
 2108       * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 2109       * Completed: 02/14/07 at 09:15:06 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 2110    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
 2102     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 8.38 ( 8.38 sec) ASCII
 2107    *********************************************************************************
 2108       * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 2109       * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 2110    *********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 16

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES45_TEST4.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST4]BF2_QB0600_ES47_TEST4.OUT;1
```

A.5 Test Case 5 Files

A.5.1 Test Case 5: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST5_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST5.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test5.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test5.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test5.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test5.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test5.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST5_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST5.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test5.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test5.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test5.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test5.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test5.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST5_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST5.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST5_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test5.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test5.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test5.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test5.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test5.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.5.2 Test Case 5: Input File, BF2_QB0600_TEST5.INP

```
    2-D cross section with gas injection
FILES (ASCII, BINARY, SUMMARY, RESTART INPUT, RESTART OUTPUT)
T F T F F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   11   21    1
TSTART,   TMAX,       MAXSTEPS
 0.0      1.0E+7      2000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  1.0E+00   1.0E+00   1.0E+07   1.5000E+00  1     1.0000E-02
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    0     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   3
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   1.0E+06  1.0E+07  1.0E+08
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   1000
RESTART PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTRST
   999
ASCII PRINT FLAGS
1 1 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0
BINARY PRINT FLAGS
1 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0
HISTORY VARIABLE OUTPUT
   0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
   1
MONITOR BLOCK (I,J,K)
   1    11    1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    0    0    2
GRID DATA CARDS: GRID BLOCK DX'S
0.5  230*1.0
GRID DATA CARDS: GRID BLOCK DY'S
1.0
GRID DATA CARDS: GRID BLOCK DZ'S
1.0
GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
   1    1    1  100.   9.000000E+01 0.000000E+00 0.000000E+00
WELL DATA
 1
 0.0  1
 1  11  1  1
 INJQ
 1.0E-05  0.0  1.0  0.0
DIRCHLET CONDITIONS
 0  F
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 11*0.40832E+07
 11*0.40734E+07
```

```
 11*0.40636E+07
 11*0.40538E+07
 11*0.40440E+07
 11*0.40342E+07
 11*0.40244E+07
 11*0.40147E+07
 11*0.40049E+07
 11*0.39951E+07
 11*0.39853E+07
 11*0.39755E+07
 11*0.39657E+07
 11*0.39559E+07
 11*0.39461E+07
 11*0.39363E+07
 11*0.39265E+07
 11*0.39167E+07
 11*0.39069E+07
 11*0.38971E+07
 11*0.38873E+07
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99999E+00
 11*0.99998E+00
 11*0.99729E+00
 11*0.99192E+00
 11*0.98663E+00
 11*0.98143E+00
 11*0.97631E+00
 11*0.97127E+00
 11*0.96631E+00
 11*0.96143E+00
 11*0.95662E+00
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
231*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
231*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
231*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  2.0000E-01   0.5000E+06
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  0.1000E+00   1.0000E+06
CONVERGENGE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  4.0000E+00   1.0000E-04
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  4.0000E+00   1.0000E-04
FTOL_SAT    FTOL_PRES:  NORMAL RESIDUAL TOLERANCE
  1.0000E-04   1.0000E-04
FTOL_SAT    FTOL_PRES:  RELAXED RESIDUAL TOLERANCE
  1.0000E-04   1.0000E-04
RXN PATH TOLS
  4*1.E-4
SOLVER
 LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
  5   40    1    T    1.E7    F
IUPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40    5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  99  10    2   99   99
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
```

```
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
231*1
 #     NAME
 1     WASTE
NWST
1
WASTE INITIAL, FINAL
1  1
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME,  ICWASTE
0.0000   0
POWASTEIC
 0.
SOWASTEIC
 0.
PRESDRZ
 0.
NBORERESET
 0
# LAMBDA        SOR           SGR
1 0.7           0.2           0.00001
# SBMIN         PBMIN         PCMAX          PCT_A    PCT_EXP   KRP  KPC  KPT
1 1.0          1.013250E+05 1.0E+08        1.0E+06   0.0       4    2    0
# PERMX         PERMY         PERMZ        POROSITY     COMPRES
1 1.00000E-17 1.00000E-17 1.00000E-17      0.45         1.0E-8
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01320E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
0.0         996.629    0      0     4.45E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
8.5077E-4  9.0829E-6
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS LAW
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0 0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03 16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0   0.0   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0   0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
 0.0  0.0
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
```

```
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
 0.0   F  F  1000.
 CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED,  PRES_LITHO   TIME_INTRU
  F
 RADIOACTIVE DECAY?
  F
 WILL TRANSPORT BE CALCULATED? T or F
  F
 RXN PATH
  F
```

A.5.3 Test Case 5: Output Difference File, BF2_QB0600_ES47_TEST5_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/06/06 at 15:50:58 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_TEST5_QA0500.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.SUM;1
```

```
  77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  126    Restart output timestep interval (IPRNTRST) = 999
  128
**********************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
  126    Restart output timestep interval (IPRNTRST) =999
  128
**********************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  179    43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  180    44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  181    45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  182    46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  183    47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  184    48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  185    49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  186    50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  187    51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  188    52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  189    53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  190    54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  191    55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  192    56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  193    57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  194    58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  195    59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  196    60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  197    61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  198    62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  199    63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  200    64 0 0 CONCST Salt concentration -- simple model kg/m^3
  201    65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  202    66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  203    67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  204    68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  205    69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  206    70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  207    71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  208    72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  209    73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  210    74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  211    75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  212    76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  213    77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  214    78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  215    79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  216    80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  217    81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  218    82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  219    83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  220    84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  221    85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  222    86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  223    87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  224    88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  225    89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  226    90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  227    91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  228    92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  229    93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  230    94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  231    95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  232    96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
```

```
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg

****************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
47 0 0 CONCFE Fe concentration -- simple model kg/m^3
48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
```

```
 219    83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 220    84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 221    85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 222    86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 223    87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 224    88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 225    89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 226    90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 227    91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 228    92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 229    93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 230    94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 231    95 0 0 H2OFLOWIN Water inflow rate kg/s
 232    96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 233    97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 234    98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 235    99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 236    100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 237    101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 238    102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 239    103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 240    104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 241    105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 242    106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 243    107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 245
************************************************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 458    instead of Input IC's for the Cavities
 459    [0=No, 1=Yes] (ICWASTE) = 0
 461    Uniform Cavity Region
 462    Uniform Cavity Region
 464    ------------------------------------------------------------------------------------------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 441    instead of Input IC's for the Waste
 442    [0=No, 1=Yes] (ICWASTE) = 0
 444    Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 0.00000E+00 Pa
 445    Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
 447    ------------------------------------------------------------------------------------------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 493    TOL = 1.0000E-02
 494    SOCEFFMIN = 1.0000E-03
 496    Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 477    Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 543    Intrinsic reaction rate constants? (LINTRIN): F
 545    Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 524    Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 553    MgO hydration reaction rate constants:
 554    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 555    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 557    Gas generation factors for biodegradation reaction:
 558    Waste Area # 1
 559    H2/H2S production (RXH2S) = 0.000000E+00
 560    CO2 production (RXCO2) = 0.000000E+00
 562    Saturation cutoff value (SOCMIN): 0.000000E+00
 564    Stoichiometric coeff's for Rxn 1:
```

```
565     H2 coefficient = 0.000000E+00
566     H2O coefficient = 0.000000E+00
567     Fe coefficient = 0.000000E+00
568     Bio coefficient = 0.000000E+00
569     Fe(OH)2 coefficient = 0.000000E+00
570     FeS coefficient = 0.000000E+00
571     MgO coefficient = 0.000000E+00
572     Mg(OH)2 coefficient = 0.000000E+00
573     MgCO3 coefficient = 0.000000E+00
575     Stoichiometric coeff's for Rxn 2:
576     H2 coefficient = 0.000000E+00
577     H2O coefficient = 0.000000E+00
578     Fe coefficient = 0.000000E+00
579     Bio coefficient = 0.000000E+00
580     Fe(OH)2 coefficient = 0.000000E+00
581     FeS coefficient = 0.000000E+00
582     MgO coefficient = 0.000000E+00
583     Mg(OH)2 coefficient = 0.000000E+00
584     MgCO3 coefficient = 0.000000E+00
586     Stoichiometric coeff's for Rxn 3:
587     H2 coefficient = 0.000000E+00
588     H2O coefficient = 0.000000E+00
589     Fe coefficient = 0.000000E+00
590     Bio coefficient = 0.000000E+00
591     Fe(OH)2 coefficient = 0.000000E+00
592     FeS coefficient = 0.000000E+00
593     MgO coefficient = 0.000000E+00
594     Mg(OH)2 coefficient = 0.000000E+00
595     MgCO3 coefficient = 0.000000E+00
597     Stoichiometric coeff's for Rxn 4:
598     H2 coefficient = 0.000000E+00
599     H2O coefficient = 0.000000E+00
600     Fe coefficient = 0.000000E+00
601     Bio coefficient = 0.000000E+00
602     Fe(OH)2 coefficient = 0.000000E+00
603     FeS coefficient = 0.000000E+00
604     MgO coefficient = 0.000000E+00
605     Mg(OH)2 coefficient = 0.000000E+00
606     MgCO3 coefficient = 0.000000E+00
608     Stoichiometric coeff's for Rxn 5:
609     H2 coefficient = 0.000000E+00
610     H2O coefficient = 0.000000E+00
611     Fe coefficient = 0.000000E+00
612     Bio coefficient = 0.000000E+00
613     Fe(OH)2 coefficient = 0.000000E+00
614     FeS coefficient = 0.000000E+00
615     MgO coefficient = 0.000000E+00
616     Mg(OH)2 coefficient = 0.000000E+00
617     MgCO3 coefficient = 0.000000E+00
619     Stoichiometric coeff's for Rxn 6:
620     H2 coefficient = 0.000000E+00
621     H2O coefficient = 0.000000E+00
622     Fe coefficient = 0.000000E+00
623     Bio coefficient = 0.000000E+00
624     Fe(OH)2 coefficient = 0.000000E+00
625     FeS coefficient = 0.000000E+00
626     MgO coefficient = 0.000000E+00
627     Mg(OH)2 coefficient = 0.000000E+00
628     MgCO3 coefficient = 0.000000E+00
630     Stoichiometric coeff's for Rxn 7:
631     H2 coefficient = 0.000000E+00
632     H2O coefficient = 0.000000E+00
633     Fe coefficient = 0.000000E+00
634     Bio coefficient = 0.000000E+00
635     Fe(OH)2 coefficient = 0.000000E+00
636     FeS coefficient = 0.000000E+00
637     MgO coefficient = 0.000000E+00
638     Mg(OH)2 coefficient = 0.000000E+00
639     MgCO3 coefficient = 0.000000E+00
641     Wicking term (SATWICK) = 0.000000E+00
```

```
  642    Humid rates to be smoothed? (LARXN) = F
  643    Concentration rates to be smoothed? (LARXN2) = F
  644    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
  646    Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
  532    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  533    Gas coefficient = 1.173000E+00
  534    H2O coefficient = 1.654000E+00
  535    Fe coefficient = 1.000000E+00
  537    Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  538    Gas coefficient = 7.677000E-01
  539    H2O coefficient = 0.000000E+00
  540    Bio coefficient = 1.000000E+00
  542    Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
  650    Bio: 2.7023E-02 kg/mol
  652    Molecular weights (WM):
  653    Fe(OH)2: 8.9862E-02 kg/mol
  654    FeS: 8.7900E-02 kg/mol
  655    MgO: 4.0304E-02 kg/mol
  656    Mg(OH)2: 5.8320E-02 kg/mol
  657    MgCO3: 8.4314E-02 kg/mol
  659    Densities (DEN(1-4)):
  660    Fe: 7.8700E+03 kg/m3
  661    Fe(OH)2: 3.4000E+03 kg/m3
  662    FeS: 4.7000E+03 kg/m3
  663    Bio: 1.1000E+03 kg/m3
  665    Densities (DEN(5-8)):
  666    MgO: 3.6000E+03 kg/m3
  667    Mg(OH)2: 2.3700E+03 kg/m3
  668    MgCO3: 3.0500E+03 kg/m3
  669    SALT: 2.1700E+03 kg/m3
  671    Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
  546    Bio: 3.0026E-02 kg/mol
  548    Wicking term (SATWICK) = 0.000000E+00
  549    Humid rates to be smoothed? (LARXN) = F
  550    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
  552    Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1142    Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1145   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 1023    Date: 04/06/06 Time: 15:50:58 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1026   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1153    CPU Time (this time step) = 0.03 sec = 0.00001 hr
 1154    CPU Time (total for run) = 3.00 sec = 0.00083 hr
 1155   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 1034    CPU Time (this time step) = 0.02 sec = 0.00001 hr
 1035    CPU Time (total for run) = 2.12 sec = 0.00059 hr
 1036   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1300    Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
 1303   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 1181    Date: 04/06/06 Time: 15:51:00 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) ASCII
 1184   ******************************************************************************
************
************
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1311     CPU Time (this time step) = 0.04 sec = 0.00001 hr
 1312     CPU Time (total for run) = 4.48 sec = 0.00124 hr
 1313     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 1192     CPU Time (this time step) = 0.02 sec = 0.00001 hr
 1193     CPU Time (total for run) = 3.17 sec = 0.00088 hr
 1194     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1458     Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
 1463     ******************************************************************************
 1464     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1465     * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1466     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
 1339     Date: 04/06/06 Time: 15:51:01 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) ASCII
 1344     ******************************************************************************
 1345     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 1346     * Completed: 04/06/06 at 15:51:01 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 1347     ******************************************************************************
************

Number of difference sections found: 17
Number of difference records found: 205

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_VMS82_V500_ES47_TEST5.OUT;1
```

A.5.4 Test Case 5: Output Difference Files, BF2_QB0600_ES40_TEST5_OUT.DIF and BF2_QB0600_ES45_TEST5_OUT.DIF

BF2_QB0600_ES40_TEST5_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
    3     ** Begun on: 02/14/07 at 08:52:56 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_TEST5.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
```

```
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
 1142     Date: 02/14/07 Time: 08:52:56 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1145     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1142     Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1145     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
 1154     CPU Time (total for run) = 4.33 sec = 0.00120 hr
 1155     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1154     CPU Time (total for run) = 3.00 sec = 0.00083 hr
 1155     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
 1300     Date: 02/14/07 Time: 08:53:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) ASCII
 1303     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1300     Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
 1303     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
 1311     CPU Time (this time step) = 0.05 sec = 0.00001 hr
 1312     CPU Time (total for run) = 6.45 sec = 0.00179 hr
 1313     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1311     CPU Time (this time step) = 0.04 sec = 0.00001 hr
 1312     CPU Time (total for run) = 4.48 sec = 0.00124 hr
 1313     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1
 1458     Date: 02/14/07 Time: 08:53:03 CPU Time: 0 0: 0: 6.45 ( 6.45 sec) ASCII
 1463     ********************************************************************************
 1464     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1465     * Completed: 02/14/07 at 08:53:03 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 1466     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1458     Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
 1463     ********************************************************************************
 1464     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1465     * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1466     ********************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 14

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES40_TEST5.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
```

BF2_QB0600_ES45_TEST5_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
    3     ** Begun on: 02/14/07 at 09:15:02 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_TEST5.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_TEST5.INP;1
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST5]BF2_QB0600_ES47_TEST5.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1142     Date: 02/14/07 Time: 09:15:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1145     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1142     Date: 02/13/07 Time: 14:11:44 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1145     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1154     CPU Time (total for run) = 2.86 sec = 0.00079 hr
 1155     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1154     CPU Time (total for run) = 3.00 sec = 0.00083 hr
 1155     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1300     Date: 02/14/07 Time: 09:15:05 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) ASCII
 1303     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1300     Date: 02/13/07 Time: 14:11:46 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) ASCII
 1303     ****************************************************************************
************
```

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1311     CPU Time (this time step) = 0.03 sec = 0.00001 hr
 1312     CPU Time (total for run) = 4.26 sec = 0.00118 hr
 1313    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1311     CPU Time (this time step) = 0.04 sec = 0.00001 hr
 1312     CPU Time (total for run) = 4.48 sec = 0.00124 hr
 1313    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1
 1458     Date: 02/14/07 Time: 09:15:07 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) ASCII
 1463     ********************************************************************************
 1464     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1465     * Completed: 02/14/07 at 09:15:07 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 1466     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
 1458     Date: 02/13/07 Time: 14:11:48 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) ASCII
 1463     ********************************************************************************
 1464     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1465     * Completed: 02/13/07 at 14:11:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1466     ********************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 14

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES45_TEST5.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST5]BF2_QB0600_ES47_TEST5.OUT;1
```

A.6 Test Case 6 Files

A.6.1 Test Case 6: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST6_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST6.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test6.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test6.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test6.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test6.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test6.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST6_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST6.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test6.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test6.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test6.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test6.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test6.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST6_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST6.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST6_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test6.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test6.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test6.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test6.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test6.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.6.2 Test Case 6: Input File, BF2_QB0600_TEST6.INP

```
 1996 BF2_TEST6:  QA Test Case #6.
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    5
 USER REQUESTED PRINTOUT TIMES  (0, 200, 900, 1001, 10000 YEARS)
  0.0000E+00   6.3114E+09   2.840123E+10   3.1558848E+10   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 1 1 0  1 1 1 1 1  1 1 1 1 1  1 1 1 1 1  0 0 0 0 1
 1 1 1 1 1  1 1 1 1 1  1 0 0 1 1  1 1 0 0 0  0 0 1 1 1
 1 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 1 1 0  1 1 1 1 1  1 1 1 1 1  1 1 1 1 1  0 0 0 0 1
 1 1 1 1 1  1 1 1 1 1  1 0 0 1 1  1 1 0 0 0  0 0 1 1 1
 1 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1    11  1  1    22  6  1
    2    1    NAME=GAS PRESSURE
22 12  1
   10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1    25  6  1    25 12  1    25 14  1
   18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1    11  8  1    12  8  1    13  8  1
14  8  1    8  9  1    9  9  1    10  9  1    11  9  1    12  9  1
13  9  1   14  9  1    8 10  1     9 10  1    10 10  1    11 10  1
12 10  1   13 10  1   14 10  1    16  8  1    17  8  1    18  8  1
16  9  1   17  9  1   18  9  1    16 10  1    17 10  1    18 10  1
   31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1    3 23  1    3 24  1     3 25  1     3 26  1     3 27  1
30  6  1   30 12  1   30 14  1    30 19  1    30 20  1    30 21  1
30 22  1   30 23  1   30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1    8 12  1    8 14  1    25  6  1    25 12  1    25 14  1
```

```
 16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
  8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
 22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
 22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
 22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
 22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
 23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
 23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
 23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
 23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
 11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
 11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
 11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
 11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
 12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
 12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
 12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
 12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
 12 26  1    12 27  1
    32    69      NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
  8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
 14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
 13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
 17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
 22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
 22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
 22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
 11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
 11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
 11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
 11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
 11 25  1    11 26  1    11 27  1
    34   140      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
  3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
  3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
 30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
 30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
  8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
 16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
  8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
 22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
 22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
 22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
 22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
 23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
 23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
 23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
 23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
 11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
 11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
 11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
 11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
 12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
 12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
 12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
 12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
 12 26  1    12 27  1
    35    69      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
  8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
 14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
 13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
 17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
 22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
 22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
 22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
 11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
 11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
 11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
 11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
 11 25  1    11 26  1    11 27  1
  MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
  T
  NUMBER OF MONITOR BLOCKS
     3
  MONITOR BLOCKS (I,J,K)
    11    10     1
```

```
  17   10    1
  25   12    1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    2    1    7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.407879E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.407879E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
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 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
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 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
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 3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
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3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
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3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
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3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
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3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
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3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
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3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
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5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
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6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
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7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
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7.977001E+02					
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8.195501E+02					
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8.358001E+02					
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
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  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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 14  27   1   T   T   1.013250E+05   2.000000E-01
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 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
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 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07
1.270000E+07	1.270000E+07	1.270000E+07	1.270000E+07	1.600225E+07
1.600225E+07				
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07	1.570060E+07
1.570060E+07				
1.797447E+07	1.587290E+07	1.516362E+07	1.492719E+07	1.486415E+07
1.484944E+07	1.484418E+07	1.483853E+07	1.483288E+07	1.483161E+07
1.483136E+07	1.483111E+07	1.482985E+07	1.482420E+07	1.481539E+07
1.480068E+07	1.473816E+07	1.467564E+07	1.465672E+07	1.461858E+07
1.458359E+07	1.457728E+07	1.456993E+07	1.451108E+07	1.445749E+07
1.445224E+07	1.443753E+07	1.437448E+07	1.413806E+07	1.342878E+07
1.132721E+07				
1.683574E+07	1.473417E+07	1.402489E+07	1.378846E+07	1.372542E+07
1.371071E+07	1.370545E+07	1.369980E+07	1.369415E+07	1.369289E+07
1.369263E+07	1.369238E+07	1.369112E+07	1.368547E+07	1.367666E+07
1.366195E+07	1.359943E+07	1.353691E+07	1.351799E+07	1.347985E+07
1.344486E+07	1.343855E+07	1.343120E+07	1.337235E+07	1.331876E+07
1.331351E+07	1.329880E+07	1.323575E+07	1.299933E+07	1.229005E+07
1.018848E+07				
1.646852E+07	1.436695E+07	1.365768E+07	1.342125E+07	1.335820E+07
1.334349E+07	1.333824E+07	1.333258E+07	1.332693E+07	1.332567E+07
1.332542E+07	1.332516E+07	1.332390E+07	1.331825E+07	1.330945E+07
1.329473E+07	1.323221E+07	1.316969E+07	1.315078E+07	1.311263E+07
1.307764E+07	1.307134E+07	1.306398E+07	1.300514E+07	1.295155E+07
1.294629E+07	1.293158E+07	1.286854E+07	1.263211E+07	1.192283E+07
9.821265E+06				
1.639718E+07	1.429562E+07	1.358634E+07	1.334991E+07	1.328687E+07
1.327215E+07	1.326690E+07	1.326125E+07	1.325559E+07	1.325433E+07
1.325408E+07	1.325383E+07	1.325257E+07	1.324691E+07	1.323811E+07
1.322340E+07	1.316088E+07	1.309835E+07	1.307944E+07	1.304130E+07
1.300631E+07	1.013250E+05	1.299265E+07	1.293380E+07	1.288021E+07
1.287496E+07	1.286025E+07	1.279720E+07	1.256077E+07	1.185150E+07
9.749928E+06				
1.638376E+07	1.428219E+07	1.357291E+07	1.333649E+07	1.327344E+07
1.325873E+07	1.325348E+07	1.324782E+07	1.324217E+07	1.324091E+07
1.324066E+07	1.324040E+07	1.323914E+07	1.323349E+07	1.322468E+07
1.320997E+07	1.314745E+07	1.308493E+07	1.306602E+07	1.302787E+07
1.299288E+07	1.013250E+05	1.297922E+07	1.292038E+07	1.286679E+07
1.286153E+07	1.284682E+07	1.278378E+07	1.254735E+07	1.183807E+07
9.736503E+06				
1.636750E+07	1.426594E+07	1.355666E+07	1.332023E+07	1.325718E+07
1.324247E+07	1.323722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.285053E+07
1.284528E+07	1.283056E+07	1.276752E+07	1.253109E+07	1.182181E+07
9.720245E+06				
1.635160E+07	1.425003E+07	1.354075E+07	1.330433E+07	1.324128E+07
1.322657E+07	1.322132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.283463E+07
1.282937E+07	1.281466E+07	1.275161E+07	1.251519E+07	1.180591E+07
9.704342E+06				
1.633570E+07	1.423413E+07	1.352485E+07	1.328843E+07	1.322538E+07
1.321067E+07	1.320541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.281872E+07
1.281347E+07	1.279876E+07	1.273571E+07	1.249929E+07	1.179001E+07
9.688441E+06				
1.631199E+07	1.421042E+07	1.350114E+07	1.326472E+07	1.320167E+07
1.318696E+07	1.318170E+07	1.317605E+07	1.317040E+07	1.316914E+07
1.316888E+07	1.316863E+07	1.316737E+07	1.316172E+07	1.315291E+07
1.313820E+07	1.307568E+07	1.301316E+07	1.299424E+07	1.295610E+07
1.292111E+07	1.013250E+05	1.290745E+07	1.284860E+07	1.279502E+07
1.278976E+07	1.277505E+07	1.271200E+07	1.247558E+07	1.176630E+07
9.664732E+06				

1.629460E+07	1.419304E+07	1.348376E+07	1.324733E+07	1.318429E+07
1.316957E+07	1.316432E+07	1.315867E+07	1.315301E+07	1.315175E+07
1.315150E+07	1.315125E+07	1.314999E+07	1.314433E+07	1.313553E+07
1.312082E+07	1.305830E+07	1.299577E+07	1.297686E+07	1.293872E+07
1.290373E+07	1.013250E+05	1.289007E+07	1.283122E+07	1.277763E+07
1.277238E+07	1.275767E+07	1.269462E+07	1.245819E+07	1.174891E+07
9.647348E+06				
1.623844E+07	1.413687E+07	1.342759E+07	1.319117E+07	1.312812E+07
1.311341E+07	1.310815E+07	1.310250E+07	1.309685E+07	1.309559E+07
1.309533E+07	1.309508E+07	1.309382E+07	1.308817E+07	1.307936E+07
1.306465E+07	1.300213E+07	1.293961E+07	1.292069E+07	1.288255E+07
1.284756E+07	1.013250E+05	1.283390E+07	1.277506E+07	1.272147E+07
1.271621E+07	1.270150E+07	1.263845E+07	1.240203E+07	1.169275E+07
9.591182E+06				
1.618281E+07	1.408125E+07	1.337197E+07	1.313554E+07	1.307250E+07
1.305778E+07	1.305253E+07	1.304688E+07	1.304122E+07	1.303996E+07
1.303971E+07	1.303946E+07	1.303820E+07	1.303254E+07	1.302374E+07
1.300903E+07	1.294651E+07	1.288398E+07	1.286507E+07	1.282693E+07
1.279194E+07	1.013250E+05	1.277828E+07	1.271943E+07	1.266584E+07
1.266059E+07	1.264588E+07	1.258283E+07	1.234640E+07	1.163712E+07
9.535558E+06				
1.581463E+07	1.371307E+07	1.300379E+07	1.276736E+07	1.270432E+07
1.268961E+07	1.268435E+07	1.267870E+07	1.267304E+07	1.267178E+07
1.267153E+07	1.267128E+07	1.267002E+07	1.266437E+07	1.265556E+07
1.264085E+07	1.257833E+07	1.251580E+07	1.249689E+07	1.245875E+07
1.242376E+07	1.013250E+05	1.241010E+07	1.235125E+07	1.229766E+07
1.229241E+07	1.227770E+07	1.221465E+07	1.197822E+07	1.126895E+07
9.167379E+06				
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1.136817E+07	1.136292E+07	1.135726E+07	1.135161E+07	1.135035E+07
1.135010E+07	1.134984E+07	1.134858E+07	1.134293E+07	1.133412E+07
1.131941E+07	1.125689E+07	1.119437E+07	1.117546E+07	1.113731E+07
1.110232E+07	1.013250E+05	1.108866E+07	1.102982E+07	1.097623E+07
1.097097E+07	1.095626E+07	1.089322E+07	1.065679E+07	9.947510E+06
7.845944E+06				
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9.459489E+06	9.454235E+06	9.448582E+06	9.442928E+06	9.441667E+06
9.441415E+06	9.441163E+06	9.439902E+06	9.434249E+06	9.425443E+06
9.410732E+06	9.348211E+06	9.285689E+06	9.266775E+06	9.228632E+06
9.193641E+06	1.013250E+05	9.179980E+06	9.121136E+06	9.067546E+06
9.062292E+06	9.047582E+06	8.984535E+06	8.748108E+06	8.038830E+06
5.937264E+06				
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8.474568E+06	8.469314E+06	8.463660E+06	8.458007E+06	8.456746E+06
8.456494E+06	8.456242E+06	8.454981E+06	8.449328E+06	8.440522E+06
8.425811E+06	8.363289E+06	8.300768E+06	8.281853E+06	8.243710E+06
8.208719E+06	1.013250E+05	8.195059E+06	8.136215E+06	8.082625E+06
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4.952342E+06				
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2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
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2.296527E+06				
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8.520000E+05				
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1.837738E+06				
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9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
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5.156000E-02  5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01
5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  5.156000E-02  5.156000E-02  5.156000E-02
5.156000E-02  5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01
5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  5.156000E-02  5.156000E-02  5.156000E-02
5.156000E-02  5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01
5.156000E-02  5.156000E-02  5.156000E-02  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
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  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
  2.000000E-01
 GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENGE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T     1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41    1    5    9    9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-10   1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-12   1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
4
START TIME FOR MAP 1
-1.5779E+08
MATERIAL TYPE GRID MAP
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12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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  4  4  4  4  4
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 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
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  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
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22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
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  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA        SOR           SGR
 1 2.832000E-01 3.819000E-01 2.395000E-01
 2 2.832000E-01 0.000000E+00 0.000000E+00
 3 2.832000E-01 0.000000E+00 0.000000E+00
 4 7.425000E+00 5.074000E-02 8.257000E-02
 5 7.425000E+00 5.074000E-02 8.257000E-02
 6 7.425000E+00 5.074000E-02 8.257000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
```

13	3.681000E-01	2.927000E-01	1.087000E-01
14	3.681000E-01	2.927000E-01	1.087000E-01
15	2.832000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	2.832000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.009950E-01	1.013250E+05	1.000000E+08	5.918000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
5	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
6	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
14	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	1.318259E-24	1.318259E-24	1.318259E-24	2.256000E-02	8.339604E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
4	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
5	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
6	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

```
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
33 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.659588E-13 1.659588E-13 1.659588E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK         EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
  BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
```

```
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
  1.9045188518798551E-10   2.7932414729320935E-09  T
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  1.000E-03   2.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.1100E+00  0.0000E+00
  1.1100E+00  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.3081E+00  -1.3838E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING,   ALPHARXN
  0.0000E+00  T  F   1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1=WASTE-FILLED, 2=BACKFILLED, 4=WASTE (1996)
 1   13         4
 2   14         4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
 WILL RADIOLYSIS BE CALCULATED? T or F
 F
 BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

A.6.3 Test Case 6: Output Difference File, BF2_QB0600_ES47_TEST6_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
     4      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
     2      ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
     3      ** Begun on: 04/06/06 at 15:52:15 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
     4      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
    62      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    61      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_TEST6_QA0500.INP;2
    62      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
    67      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    66      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_CLOSURE.DAT;1
    67      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    72      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    72      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
    77      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.SUM;1
    77      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
    82      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.BIN;1
    82      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
    87      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
    86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.ROT;1
    87      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   198      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
   199      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
   200      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
   201      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
   202      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
   203      48 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
   204      49 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
   205      50 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
   206      51 1 1 QR(I,J,K,4) C6-H10-05 consumption rate -- simple model kg/(s*m^3)
   207      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
   208      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
   209      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

```
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
```

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  281
**************************************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  198     43 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  199     44 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  200     45 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  201     46 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  202     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  203     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  204     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  205     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  206     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  207     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  208     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  209     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  210     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  211     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  212     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  213     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  214     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  215     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  216     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  217     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  218     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  219     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  220     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  221     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  222     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  223     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  224     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  225     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  226     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  227     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  228     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  229     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  230     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  231     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  232     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  233     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  234     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  235     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  236     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  237     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  238     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  239     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  240     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  241     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  242     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  243     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  244     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  245     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  246     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  247     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  248     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  249     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  250     95 0 0 H2OFLOWIN Water inflow rate kg/s
  251     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  252     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  253     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  254     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  255     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  256     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  257     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  258     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  259     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  260     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  261     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  262     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
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  714     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  715     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  716     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  717     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  697     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  698     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  699     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  700     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  847     39 CAVITY_5
  849     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  831     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  863     where IC's will be reset (NMATRESET) = 5
  864     Material type indexes of material regions
  865     where IC's will be reset (MATRESET) = 7 8 9 10 39
  867     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  845     where IC's will be reset (NMATRESET) = 4
  846     Material type indexes of material regions
  847     where IC's will be reset (MATRESET) = 7 8 9 10
  849     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  872     instead of Input IC's for the Cavities
  873     [0=No, 1=Yes] (ICWASTE) = 1
  875     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  878     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  879     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  880     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  881     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  882     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  883     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  884     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  886     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  854     instead of Input IC's for the Waste
  855     [0=No, 1=Yes] (ICWASTE) = 1
  857     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  858     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  859     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  860     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  862     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
  952     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  953     TOL = 1.0000E-02
  954     SOCEFFMIN = 1.0000E-03
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  956     Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
  929     Fracture model will be used? (KFRACTURE): T
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1089     Intrinsic reaction rate constants? (LINTRIN): T
 1091     Reaction rate constants (RK):
 1092     Corrosion reaction rate constant = 1.904519E-10 (1/s)
 1093     Biodegradation reaction rate constant = 2.793241E-09 (1/s)
 1095     Factor for humid reaction rate constants (HF):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1062     Reaction rate constants (RK):
 1063     Corrosion reaction rate constant = 3.000000E-08 mol Fe/(s*m^3)
 1064     Biodegradation reaction rate constant = 1.500000E-07 mol cell/(s*m^3)
 1066     Factor for humid reaction rate constants (HF):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1099     MgO hydration reaction rate constants:
 1100     Inundated reaction (BRUCITEI) = 0.000000E+00 (1/s)
 1101     Humid reaction (BRUCITEH) = 0.000000E+00 (1/s)
 1103     Gas generation factors for biodegradation reaction:
 1104     Waste Area # 1
 1105     H2/H2S production (RXH2S) = 1.110000E+00
 1106     CO2 production (RXCO2) = 0.000000E+00
 1108     Gas generation factors for biodegradation reaction:
 1109     Waste Area # 2
 1110     H2/H2S production (RXH2S) = 1.110000E+00
 1111     CO2 production (RXCO2) = 0.000000E+00
 1113     Saturation cutoff value (SOCMIN): 0.000000E+00
 1115     Stoichiometric coeff's for Rxn 1:
 1116     H2 coefficient = 1.308100E+00
 1117     H2O coefficient = -1.383800E+00
 1118     Fe coefficient = -1.000000E+00
 1119     Bio coefficient = 0.000000E+00
 1120     Fe(OH)2 coefficient = 0.000000E+00
 1121     FeS coefficient = 0.000000E+00
 1122     MgO coefficient = 0.000000E+00
 1123     Mg(OH)2 coefficient = 0.000000E+00
 1124     MgCO3 coefficient = 0.000000E+00
 1126     Stoichiometric coeff's for Rxn 2:
 1127     H2 coefficient = 1.110000E+00
 1128     H2O coefficient = 0.000000E+00
 1129     Fe coefficient = 0.000000E+00
 1130     Bio coefficient = -1.000000E+00
 1131     Fe(OH)2 coefficient = 0.000000E+00
 1132     FeS coefficient = 0.000000E+00
 1133     MgO coefficient = 0.000000E+00
 1134     Mg(OH)2 coefficient = 0.000000E+00
 1135     MgCO3 coefficient = 0.000000E+00
 1137     Stoichiometric coeff's for Rxn 3:
 1138     H2 coefficient = 0.000000E+00
 1139     H2O coefficient = 0.000000E+00
 1140     Fe coefficient = 0.000000E+00
 1141     Bio coefficient = 0.000000E+00
 1142     Fe(OH)2 coefficient = 0.000000E+00
 1143     FeS coefficient = 0.000000E+00
 1144     MgO coefficient = 0.000000E+00
 1145     Mg(OH)2 coefficient = 0.000000E+00
 1146     MgCO3 coefficient = 0.000000E+00
 1148     Stoichiometric coeff's for Rxn 4:
 1149     H2 coefficient = 0.000000E+00
 1150     H2O coefficient = 0.000000E+00
 1151     Fe coefficient = 0.000000E+00
 1152     Bio coefficient = 0.000000E+00
 1153     Fe(OH)2 coefficient = 0.000000E+00
 1154     FeS coefficient = 0.000000E+00
 1155     MgO coefficient = 0.000000E+00
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 1156     Mg(OH)2 coefficient = 0.000000E+00
 1157     MgCO3 coefficient = 0.000000E+00
 1159     Stoichiometric coeff's for Rxn 5:
 1160     H2 coefficient = 0.000000E+00
 1161     H2O coefficient = 0.000000E+00
 1162     Fe coefficient = 0.000000E+00
 1163     Bio coefficient = 0.000000E+00
 1164     Fe(OH)2 coefficient = 0.000000E+00
 1165     FeS coefficient = 0.000000E+00
 1166     MgO coefficient = 0.000000E+00
 1167     Mg(OH)2 coefficient = 0.000000E+00
 1168     MgCO3 coefficient = 0.000000E+00
 1170     Stoichiometric coeff's for Rxn 6:
 1171     H2 coefficient = 0.000000E+00
 1172     H2O coefficient = 0.000000E+00
 1173     Fe coefficient = 0.000000E+00
 1174     Bio coefficient = 0.000000E+00
 1175     Fe(OH)2 coefficient = 0.000000E+00
 1176     FeS coefficient = 0.000000E+00
 1177     MgO coefficient = 0.000000E+00
 1178     Mg(OH)2 coefficient = 0.000000E+00
 1179     MgCO3 coefficient = 0.000000E+00
 1181     Stoichiometric coeff's for Rxn 7:
 1182     H2 coefficient = 0.000000E+00
 1183     H2O coefficient = 0.000000E+00
 1184     Fe coefficient = 0.000000E+00
 1185     Bio coefficient = 0.000000E+00
 1186     Fe(OH)2 coefficient = 0.000000E+00
 1187     FeS coefficient = 0.000000E+00
 1188     MgO coefficient = 0.000000E+00
 1189     Mg(OH)2 coefficient = 0.000000E+00
 1190     MgCO3 coefficient = 0.000000E+00
 1192     Wicking term (SATWICK) = 0.000000E+00
 1193     Humid rates to be smoothed? (LARXN) = T
 1194     Concentration rates to be smoothed? (LARXN2) = F
 1195     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1197     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1070     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1071     Gas coefficient = 1.308100E+00
 1072     H2O coefficient = 1.383800E+00
 1073     Fe coefficient = 1.000000E+00
 1075     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1076     Gas coefficient = 1.110000E+00
 1077     H2O coefficient = 0.000000E+00
 1078     Bio coefficient = 1.000000E+00
 1080     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1203     Molecular weights (WM):
 1204     Fe(OH)2: 8.9862E-02 kg/mol
 1205     FeS: 8.7900E-02 kg/mol
 1206     MgO: 4.0304E-02 kg/mol
 1207     Mg(OH)2: 5.8320E-02 kg/mol
 1208     MgCO3: 8.4314E-02 kg/mol
 1210     Densities (DEN(1-4)):
 1211     Fe: 7.8700E+03 kg/m3
 1212     Fe(OH)2: 3.4000E+03 kg/m3
 1213     FeS: 4.7000E+03 kg/m3
 1214     Bio: 1.1000E+03 kg/m3
 1216     Densities (DEN(5-8)):
 1217     MgO: 3.6000E+03 kg/m3
 1218     Mg(OH)2: 2.3700E+03 kg/m3
 1219     MgCO3: 3.0500E+03 kg/m3
 1220     SALT: 2.1700E+03 kg/m3
 1222     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1086     Wicking term (SATWICK) = 0.000000E+00
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 1087    Humid rates to be smoothed? (LARXN) = T
 1088    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1090    Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1236    PHIUPPER = Upper porosity limit in permeability-porosity expression
 1237    PHILOWER = Lower porosity limit in permeability-porosity expression
 1238    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1239    Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1240    4 1.480000E+07 3.155700E+12 1 F
 1241    MODPERM Parameters
 1242    Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1243    4 5.584700E-12 0.000000E+00
 1245    Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1104    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1105    Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1106    4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1108    Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1263    *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266    *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269    *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1272    *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1275    *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1279
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1126    *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1129    *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1133
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1334    48 H2RATE H2 generation rate -- simple model kg/(s*m^3) 1.000000E+00
 1335    49 BRINRATE Brine consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1336    50 FERATE Fe consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1337    51 CELLRATE C6-H10-O5 consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1338    57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1339    58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1341    CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1188    43 H2RATE H2 generation rate -- simple model kg/(s*m^3) 1.000000E+00
 1189    44 BRINRATE Brine consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1190    45 FERATE Fe consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1191    46 CELLRATE C6-H10-O5 consumption rate -- simple model kg/(s*m^3) 1.000000E+00
 1192    47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1193    48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1195    CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1810    CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1811    CPU Time (total for run) = 23.09 sec = 0.00641 hr
 1812    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 1664    CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1665    CPU Time (total for run) = 19.83 sec = 0.00551 hr
 1666    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6373    Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 ( 23.15 sec) ASCII
 6375    Time Step No. = 135 Elapsed Time = 0.000000E+00 days
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 6376     Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 ( 23.17 sec) Binary
 6378     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379     Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 ( 24.20 sec) Binary
 6381     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6382     Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
 6384     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6385     Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 ( 31.15 sec) Binary
 6387     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6388     Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 ( 36.67 sec) Binary
 6390     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6391     Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 ( 42.13 sec) Binary
 6393     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6394     Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 ( 57.61 sec) Binary
 6396     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6397     Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 ( 60.47 sec) Binary
 6399     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6400     Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
 6402     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6403     Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 ( 67.11 sec) Binary
 6405     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6406     Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 ( 69.96 sec) Binary
 6408     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6409     Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 ( 73.56 sec) Binary
 6411     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6412     Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 ( 75.63 sec) Binary
 6414     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6415     Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
 6417     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6418     Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 ( 86.76 sec) Binary
 6421    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 6227     Date: 04/06/06 Time: 15:52:35 CPU Time: 0 0: 0:19.91 ( 19.91 sec) ASCII
 6229     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6230     Date: 04/06/06 Time: 15:52:35 CPU Time: 0 0: 0:19.92 ( 19.92 sec) Binary
 6232     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6233     Date: 04/06/06 Time: 15:52:36 CPU Time: 0 0: 0:20.81 ( 20.81 sec) Binary
 6235     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6236     Date: 04/06/06 Time: 15:52:39 CPU Time: 0 0: 0:23.77 ( 23.77 sec) Binary
 6238     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6239     Date: 04/06/06 Time: 15:52:42 CPU Time: 0 0: 0:26.92 ( 26.92 sec) Binary
 6241     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6242     Date: 04/06/06 Time: 15:52:47 CPU Time: 0 0: 0:31.76 ( 31.76 sec) Binary
 6244     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6245     Date: 04/06/06 Time: 15:52:51 CPU Time: 0 0: 0:36.51 ( 36.51 sec) Binary
 6247     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6248     Date: 04/06/06 Time: 15:53:04 CPU Time: 0 0: 0:49.48 ( 49.48 sec) Binary
 6250     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6251     Date: 04/06/06 Time: 15:53:07 CPU Time: 0 0: 0:51.81 ( 51.81 sec) Binary
 6253     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6254     Date: 04/06/06 Time: 15:53:09 CPU Time: 0 0: 0:54.41 ( 54.41 sec) Binary
 6256     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6257     Date: 04/06/06 Time: 15:53:12 CPU Time: 0 0: 0:57.23 ( 57.23 sec) Binary
 6259     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6260     Date: 04/06/06 Time: 15:53:15 CPU Time: 0 0: 0:59.57 ( 59.57 sec) Binary
 6262     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6263     Date: 04/06/06 Time: 15:53:18 CPU Time: 0 0: 1: 2.63 ( 62.63 sec) Binary
 6265     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6266     Date: 04/06/06 Time: 15:53:19 CPU Time: 0 0: 1: 4.45 ( 64.45 sec) Binary
 6268     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6269     Date: 04/06/06 Time: 15:53:23 CPU Time: 0 0: 1: 8.03 ( 68.03 sec) Binary
 6271     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6272     Date: 04/06/06 Time: 15:53:29 CPU Time: 0 0: 1:14.22 ( 74.22 sec) Binary
 6275    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6429     CPU Time (this time step) = 0.37 sec = 0.00010 hr
 6430     CPU Time (total for run) = 92.24 sec = 0.02562 hr
 6431    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
 6283     CPU Time (this time step) = 0.33 sec = 0.00009 hr
 6284     CPU Time (total for run) = 79.02 sec = 0.02195 hr
 6285    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
10992    Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994    Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995    Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997    Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998    Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000    Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001    Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003    Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004    Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006    Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007    Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009    Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010    Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012    Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013    Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015    Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016    Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018    Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019    Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021    Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022    Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024    Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025    Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027    Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028    Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030    Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031    Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033    Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034    Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036    Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037    Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039    Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040    Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
10846    Date: 04/06/06 Time: 15:53:34 CPU Time: 0 0: 1:19.08 ( 79.08 sec) ASCII
10848    Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10849    Date: 04/06/06 Time: 15:53:34 CPU Time: 0 0: 1:19.08 ( 79.08 sec) Binary
10851    Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10852    Date: 04/06/06 Time: 15:53:35 CPU Time: 0 0: 1:19.92 ( 79.92 sec) Binary
10854    Time Step No. = 440 Elapsed Time = 2.216406E+05 days
10855    Date: 04/06/06 Time: 15:53:42 CPU Time: 0 0: 1:27.01 ( 87.01 sec) Binary
10857    Time Step No. = 460 Elapsed Time = 2.488238E+05 days
10858    Date: 04/06/06 Time: 15:53:51 CPU Time: 0 0: 1:35.79 ( 95.79 sec) Binary
10860    Time Step No. = 480 Elapsed Time = 2.511960E+05 days
10861    Date: 04/06/06 Time: 15:53:55 CPU Time: 0 0: 1:39.53 ( 99.53 sec) Binary
10863    Time Step No. = 500 Elapsed Time = 2.923516E+05 days
10864    Date: 04/06/06 Time: 15:54:03 CPU Time: 0 0: 1:47.64 ( 107.64 sec) Binary
10866    Time Step No. = 520 Elapsed Time = 2.937006E+05 days
10867    Date: 04/06/06 Time: 15:54:11 CPU Time: 0 0: 1:55.93 ( 115.93 sec) Binary
10869    Time Step No. = 540 Elapsed Time = 2.996768E+05 days
10870    Date: 04/06/06 Time: 15:54:17 CPU Time: 0 0: 2: 1.75 ( 121.75 sec) Binary
10872    Time Step No. = 560 Elapsed Time = 3.032487E+05 days
10873    Date: 04/06/06 Time: 15:54:26 CPU Time: 0 0: 2:11.01 ( 131.01 sec) Binary
10875    Time Step No. = 580 Elapsed Time = 3.049319E+05 days
10876    Date: 04/06/06 Time: 15:54:32 CPU Time: 0 0: 2:16.89 ( 136.89 sec) Binary
10878    Time Step No. = 600 Elapsed Time = 3.135519E+05 days
10879    Date: 04/06/06 Time: 15:54:41 CPU Time: 0 0: 2:25.41 ( 145.41 sec) Binary
10881    Time Step No. = 620 Elapsed Time = 3.149492E+05 days
10882    Date: 04/06/06 Time: 15:54:47 CPU Time: 0 0: 2:32.03 ( 152.03 sec) Binary
10884    Time Step No. = 640 Elapsed Time = 3.161170E+05 days
10885    Date: 04/06/06 Time: 15:54:54 CPU Time: 0 0: 2:39.20 ( 159.20 sec) Binary
10887    Time Step No. = 660 Elapsed Time = 3.173440E+05 days
10888    Date: 04/06/06 Time: 15:55:03 CPU Time: 0 0: 2:47.29 ( 167.29 sec) Binary
10890    Time Step No. = 680 Elapsed Time = 3.204458E+05 days
10891    Date: 04/06/06 Time: 15:55:09 CPU Time: 0 0: 2:54.14 ( 174.14 sec) Binary
10893    Time Step No. = 700 Elapsed Time = 3.283157E+05 days
10894    Date: 04/06/06 Time: 15:55:17 CPU Time: 0 0: 3: 2.09 ( 182.09 sec) Binary
10897    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051    CPU Time (this time step) = 0.25 sec = 0.00007 hr
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11052    CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
10905    CPU Time (this time step) = 0.22 sec = 0.00006 hr
10906    CPU Time (total for run) = 183.25 sec = 0.05090 hr
10907   ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614    Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) ASCII
15616    Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617    Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) Binary
15619    Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620    Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 ( 217.40 sec) Binary
15622    Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623    Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 ( 226.08 sec) Binary
15625    Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626    Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 ( 233.73 sec) Binary
15628    Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629    Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
15631    Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632    Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 ( 246.55 sec) Binary
15635   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
15468    Date: 04/06/06 Time: 15:55:19 CPU Time: 0 0: 3: 3.32 ( 183.32 sec) ASCII
15470    Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15471    Date: 04/06/06 Time: 15:55:19 CPU Time: 0 0: 3: 3.33 ( 183.33 sec) Binary
15473    Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15474    Date: 04/06/06 Time: 15:55:25 CPU Time: 0 0: 3: 9.75 ( 189.75 sec) Binary
15476    Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15477    Date: 04/06/06 Time: 15:55:33 CPU Time: 0 0: 3:17.42 ( 197.42 sec) Binary
15479    Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15480    Date: 04/06/06 Time: 15:55:40 CPU Time: 0 0: 3:24.31 ( 204.31 sec) Binary
15482    Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15483    Date: 04/06/06 Time: 15:55:46 CPU Time: 0 0: 3:30.54 ( 210.54 sec) Binary
15485    Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15486    Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:35.66 ( 215.66 sec) Binary
15489   ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643    CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644    CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
15497    CPU Time (this time step) = 0.11 sec = 0.00003 hr
15498    CPU Time (total for run) = 216.00 sec = 0.06000 hr
15499   ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206    Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 ( 247.02 sec) ASCII
20208    Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209    Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 ( 247.03 sec) Binary
20211    Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212    Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 ( 251.52 sec) Binary
20214    Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215    Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 ( 258.00 sec) Binary
20217    Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218    Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
20220    Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221    Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
20223    Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224    Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 ( 269.58 sec) Binary
20226    Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227    Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 ( 273.40 sec) Binary
20229    Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230    Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 ( 282.23 sec) Binary
20232    Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233    Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 ( 289.27 sec) Binary
20235    Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236    Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
20238    Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
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20239     Date: 02/13/07 Time: 14:16:48 CPU Time: 0 0: 5: 3.47 ( 303.47 sec) Binary
20241     Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242     Date: 02/13/07 Time: 14:16:56 CPU Time: 0 0: 5:11.87 ( 311.87 sec) Binary
20244     Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245     Date: 02/13/07 Time: 14:17:03 CPU Time: 0 0: 5:18.24 ( 318.24 sec) Binary
20247     Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248     Date: 02/13/07 Time: 14:17:12 CPU Time: 0 0: 5:27.26 ( 327.26 sec) Binary
20250     Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251     Date: 02/13/07 Time: 14:17:17 CPU Time: 0 0: 5:32.38 ( 332.38 sec) Binary
20253     Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254     Date: 02/13/07 Time: 14:17:20 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
20256     Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257     Date: 02/13/07 Time: 14:17:29 CPU Time: 0 0: 5:44.17 ( 344.17 sec) Binary
20259     Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260     Date: 02/13/07 Time: 14:17:34 CPU Time: 0 0: 5:49.28 ( 349.28 sec) Binary
20262     Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263     Date: 02/13/07 Time: 14:17:41 CPU Time: 0 0: 5:56.49 ( 356.49 sec) Binary
20265     Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266     Date: 02/13/07 Time: 14:17:46 CPU Time: 0 0: 6: 1.54 ( 361.54 sec) Binary
20268     Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269     Date: 02/13/07 Time: 14:17:58 CPU Time: 0 0: 6:13.53 ( 373.53 sec) Binary
20271     Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272     Date: 02/13/07 Time: 14:18:00 CPU Time: 0 0: 6:15.57 ( 375.57 sec) Binary
20274     Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275     Date: 02/13/07 Time: 14:18:04 CPU Time: 0 0: 6:19.31 ( 379.31 sec) Binary
20277     Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278     Date: 02/13/07 Time: 14:18:07 CPU Time: 0 0: 6:22.68 ( 382.68 sec) Binary
20280     Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281     Date: 02/13/07 Time: 14:18:19 CPU Time: 0 0: 6:34.43 ( 394.43 sec) Binary
20283     Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284     Date: 02/13/07 Time: 14:18:21 CPU Time: 0 0: 6:36.90 ( 396.90 sec) Binary
20286     Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287     Date: 02/13/07 Time: 14:18:30 CPU Time: 0 0: 6:45.75 ( 405.75 sec) Binary
20289     Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290     Date: 02/13/07 Time: 14:18:33 CPU Time: 0 0: 6:48.33 ( 408.33 sec) Binary
20292     Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293     Date: 02/13/07 Time: 14:18:38 CPU Time: 0 0: 6:53.14 ( 413.14 sec) Binary
20295     Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296     Date: 02/13/07 Time: 14:18:43 CPU Time: 0 0: 6:57.99 ( 417.99 sec) Binary
20298     Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299     Date: 02/13/07 Time: 14:18:47 CPU Time: 0 0: 7: 2.60 ( 422.60 sec) Binary
20301     Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302     Date: 02/13/07 Time: 14:18:58 CPU Time: 0 0: 7:13.33 ( 433.33 sec) Binary
20304     Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305     Date: 02/13/07 Time: 14:19:01 CPU Time: 0 0: 7:16.06 ( 436.06 sec) Binary
20307     Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308     Date: 02/13/07 Time: 14:19:05 CPU Time: 0 0: 7:20.22 ( 440.22 sec) Binary
20310     Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311     Date: 02/13/07 Time: 14:19:10 CPU Time: 0 0: 7:25.47 ( 445.47 sec) Binary
20313     Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314     Date: 02/13/07 Time: 14:19:15 CPU Time: 0 0: 7:30.22 ( 450.22 sec) Binary
20316     Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317     Date: 02/13/07 Time: 14:19:24 CPU Time: 0 0: 7:38.96 ( 458.96 sec) Binary
20319     Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320     Date: 02/13/07 Time: 14:19:29 CPU Time: 0 0: 7:43.95 ( 463.95 sec) Binary
20322     Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323     Date: 02/13/07 Time: 14:19:32 CPU Time: 0 0: 7:47.11 ( 467.11 sec) Binary
20325     Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326     Date: 02/13/07 Time: 14:19:38 CPU Time: 0 0: 7:53.17 ( 473.17 sec) Binary
20328     Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329     Date: 02/13/07 Time: 14:19:42 CPU Time: 0 0: 7:57.54 ( 477.54 sec) Binary
20331     Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332     Date: 02/13/07 Time: 14:19:51 CPU Time: 0 0: 8: 5.82 ( 485.82 sec) Binary
20334     Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335     Date: 02/13/07 Time: 14:19:56 CPU Time: 0 0: 8:11.18 ( 491.18 sec) Binary
20337     Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338     Date: 02/13/07 Time: 14:20:01 CPU Time: 0 0: 8:16.49 ( 496.49 sec) Binary
20340     Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341     Date: 02/13/07 Time: 14:20:08 CPU Time: 0 0: 8:23.09 ( 503.09 sec) Binary
20343     Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344     Date: 02/13/07 Time: 14:20:16 CPU Time: 0 0: 8:30.88 ( 510.88 sec) Binary
20346     Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347     Date: 02/13/07 Time: 14:20:21 CPU Time: 0 0: 8:35.85 ( 515.85 sec) Binary
20349     Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350     Date: 02/13/07 Time: 14:20:29 CPU Time: 0 0: 8:43.66 ( 523.66 sec) Binary
20352     Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
```

```
20353     Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 ( 531.52 sec) Binary
20355     Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356     Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 ( 538.24 sec) Binary
20358     Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359     Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 ( 545.51 sec) Binary
20361     Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362     Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 ( 553.98 sec) Binary
20364     Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365     Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 ( 561.91 sec) Binary
20367     Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368     Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 ( 569.59 sec) Binary
20370     Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371     Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 ( 577.11 sec) Binary
20373     Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374     Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 ( 584.14 sec) Binary
20376     Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377     Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 ( 591.42 sec) Binary
20379     Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380     Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 ( 597.81 sec) Binary
20383     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
20060     Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:36.09 ( 216.09 sec) ASCII
20062     Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20063     Date: 04/06/06 Time: 15:55:51 CPU Time: 0 0: 3:36.11 ( 216.11 sec) Binary
20065     Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20066     Date: 04/06/06 Time: 15:55:55 CPU Time: 0 0: 3:40.06 ( 220.06 sec) Binary
20068     Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20069     Date: 04/06/06 Time: 15:56:01 CPU Time: 0 0: 3:45.76 ( 225.76 sec) Binary
20071     Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20072     Date: 04/06/06 Time: 15:56:07 CPU Time: 0 0: 3:51.31 ( 231.31 sec) Binary
20074     Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20075     Date: 04/06/06 Time: 15:56:10 CPU Time: 0 0: 3:54.55 ( 234.55 sec) Binary
20077     Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20078     Date: 04/06/06 Time: 15:56:11 CPU Time: 0 0: 3:55.97 ( 235.97 sec) Binary
20080     Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20081     Date: 04/06/06 Time: 15:56:15 CPU Time: 0 0: 3:59.44 ( 239.44 sec) Binary
20083     Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20084     Date: 04/06/06 Time: 15:56:23 CPU Time: 0 0: 4: 7.23 ( 247.23 sec) Binary
20086     Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20087     Date: 04/06/06 Time: 15:56:29 CPU Time: 0 0: 4:13.32 ( 253.32 sec) Binary
20089     Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20090     Date: 04/06/06 Time: 15:56:35 CPU Time: 0 0: 4:19.78 ( 259.78 sec) Binary
20092     Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20093     Date: 04/06/06 Time: 15:56:41 CPU Time: 0 0: 4:25.55 ( 265.55 sec) Binary
20095     Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20096     Date: 04/06/06 Time: 15:56:48 CPU Time: 0 0: 4:32.51 ( 272.51 sec) Binary
20098     Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20099     Date: 04/06/06 Time: 15:56:54 CPU Time: 0 0: 4:38.03 ( 278.03 sec) Binary
20101     Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20102     Date: 04/06/06 Time: 15:57:01 CPU Time: 0 0: 4:45.73 ( 285.73 sec) Binary
20104     Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20105     Date: 04/06/06 Time: 15:57:06 CPU Time: 0 0: 4:50.10 ( 290.10 sec) Binary
20107     Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20108     Date: 04/06/06 Time: 15:57:09 CPU Time: 0 0: 4:53.03 ( 293.03 sec) Binary
20110     Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20111     Date: 04/06/06 Time: 15:57:16 CPU Time: 0 0: 5: 0.19 ( 300.19 sec) Binary
20113     Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20114     Date: 04/06/06 Time: 15:57:20 CPU Time: 0 0: 5: 4.55 ( 304.55 sec) Binary
20116     Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20117     Date: 04/06/06 Time: 15:57:26 CPU Time: 0 0: 5:10.69 ( 310.69 sec) Binary
20119     Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20120     Date: 04/06/06 Time: 15:57:31 CPU Time: 0 0: 5:15.00 ( 315.00 sec) Binary
20122     Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20123     Date: 04/06/06 Time: 15:57:41 CPU Time: 0 0: 5:25.22 ( 325.22 sec) Binary
20125     Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20126     Date: 04/06/06 Time: 15:57:43 CPU Time: 0 0: 5:26.97 ( 326.97 sec) Binary
20128     Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20129     Date: 04/06/06 Time: 15:57:46 CPU Time: 0 0: 5:30.15 ( 330.15 sec) Binary
20131     Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20132     Date: 04/06/06 Time: 15:57:49 CPU Time: 0 0: 5:33.05 ( 333.05 sec) Binary
20134     Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20135     Date: 04/06/06 Time: 15:57:59 CPU Time: 0 0: 5:43.10 ( 343.10 sec) Binary
20137     Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20138     Date: 04/06/06 Time: 15:58:01 CPU Time: 0 0: 5:45.22 ( 345.22 sec) Binary
20140     Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
```

```
20141    Date: 04/06/06 Time: 15:58:09 CPU Time: 0 0: 5:52.79 ( 352.79 sec) Binary
20143    Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20144    Date: 04/06/06 Time: 15:58:11 CPU Time: 0 0: 5:55.01 ( 355.01 sec) Binary
20146    Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20147    Date: 04/06/06 Time: 15:58:15 CPU Time: 0 0: 5:59.14 ( 359.14 sec) Binary
20149    Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20150    Date: 04/06/06 Time: 15:58:19 CPU Time: 0 0: 6: 3.32 ( 363.32 sec) Binary
20152    Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20153    Date: 04/06/06 Time: 15:58:23 CPU Time: 0 0: 6: 7.27 ( 367.27 sec) Binary
20155    Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20156    Date: 04/06/06 Time: 15:58:32 CPU Time: 0 0: 6:16.43 ( 376.43 sec) Binary
20158    Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20159    Date: 04/06/06 Time: 15:58:35 CPU Time: 0 0: 6:18.79 ( 378.79 sec) Binary
20161    Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20162    Date: 04/06/06 Time: 15:58:38 CPU Time: 0 0: 6:22.37 ( 382.37 sec) Binary
20164    Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20165    Date: 04/06/06 Time: 15:58:43 CPU Time: 0 0: 6:26.85 ( 386.85 sec) Binary
20167    Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20168    Date: 04/06/06 Time: 15:58:47 CPU Time: 0 0: 6:30.92 ( 390.92 sec) Binary
20170    Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20171    Date: 04/06/06 Time: 15:58:54 CPU Time: 0 0: 6:38.36 ( 398.36 sec) Binary
20173    Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20174    Date: 04/06/06 Time: 15:58:59 CPU Time: 0 0: 6:42.66 ( 402.66 sec) Binary
20176    Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20177    Date: 04/06/06 Time: 15:59:01 CPU Time: 0 0: 6:45.40 ( 405.40 sec) Binary
20179    Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20180    Date: 04/06/06 Time: 15:59:06 CPU Time: 0 0: 6:50.21 ( 410.21 sec) Binary
20182    Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20183    Date: 04/06/06 Time: 15:59:10 CPU Time: 0 0: 6:53.70 ( 413.70 sec) Binary
20185    Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20186    Date: 04/06/06 Time: 15:59:16 CPU Time: 0 0: 7: 0.34 ( 420.34 sec) Binary
20188    Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20189    Date: 04/06/06 Time: 15:59:21 CPU Time: 0 0: 7: 4.67 ( 424.67 sec) Binary
20191    Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20192    Date: 04/06/06 Time: 15:59:25 CPU Time: 0 0: 7: 8.90 ( 428.90 sec) Binary
20194    Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20195    Date: 04/06/06 Time: 15:59:30 CPU Time: 0 0: 7:14.23 ( 434.23 sec) Binary
20197    Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20198    Date: 04/06/06 Time: 15:59:36 CPU Time: 0 0: 7:20.47 ( 440.47 sec) Binary
20200    Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20201    Date: 04/06/06 Time: 15:59:40 CPU Time: 0 0: 7:24.44 ( 444.44 sec) Binary
20203    Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20204    Date: 04/06/06 Time: 15:59:47 CPU Time: 0 0: 7:30.73 ( 450.73 sec) Binary
20206    Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20207    Date: 04/06/06 Time: 15:59:53 CPU Time: 0 0: 7:37.04 ( 457.04 sec) Binary
20209    Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20210    Date: 04/06/06 Time: 15:59:58 CPU Time: 0 0: 7:42.42 ( 462.42 sec) Binary
20212    Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20213    Date: 04/06/06 Time: 16:00:04 CPU Time: 0 0: 7:48.22 ( 468.22 sec) Binary
20215    Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20216    Date: 04/06/06 Time: 16:00:11 CPU Time: 0 0: 7:55.01 ( 475.01 sec) Binary
20218    Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20219    Date: 04/06/06 Time: 16:00:18 CPU Time: 0 0: 8: 1.41 ( 481.41 sec) Binary
20221    Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20222    Date: 04/06/06 Time: 16:00:24 CPU Time: 0 0: 8: 7.57 ( 487.57 sec) Binary
20224    Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20225    Date: 04/06/06 Time: 16:00:30 CPU Time: 0 0: 8:13.99 ( 493.99 sec) Binary
20227    Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20228    Date: 04/06/06 Time: 16:00:36 CPU Time: 0 0: 8:19.98 ( 499.98 sec) Binary
20230    Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20231    Date: 04/06/06 Time: 16:00:42 CPU Time: 0 0: 8:26.22 ( 506.22 sec) Binary
20233    Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20234    Date: 04/06/06 Time: 16:00:48 CPU Time: 0 0: 8:31.71 ( 511.71 sec) Binary
20237    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399    CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400    CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
20253    CPU Time (this time step) = 0.17 sec = 0.00005 hr
20254    CPU Time (total for run) = 512.43 sec = 0.14234 hr
20255    ****************************************************************************
************
```

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962     Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964     Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965     Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970     ********************************************************************************
24971     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972     * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
24816     Date: 04/06/06 Time: 16:00:49 CPU Time: 0 0: 8:32.52 ( 512.52 sec) ASCII
24818     Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24819     Date: 04/06/06 Time: 16:00:49 CPU Time: 0 0: 8:32.53 ( 512.53 sec) Binary
24824     ********************************************************************************
24825     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
24826     * Completed: 04/06/06 at 16:00:49 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
24827     ********************************************************************************
************

Number of difference sections found: 29
Number of difference records found: 447

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_VMS82_V500_ES47_TEST6.OUT;1
```

A.6.4 Test Case 6: Output Difference Files, BF2_QB0600_ES40_TEST6_OUT.DIF and BF2_QB0600_ES45_TEST6_OUT.DIF

BF2_QB0600_ES40_TEST6_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
    3     ** Begun on: 02/14/07 at 08:53:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_TEST6.INP;1
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.SUM;1
```

```
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
 1810     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1811     CPU Time (total for run) = 31.00 sec = 0.00861 hr
 1812     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1810     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1811     CPU Time (total for run) = 23.09 sec = 0.00641 hr
 1812     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
 6373     Date: 02/14/07 Time: 08:53:32 CPU Time: 0 0: 0:31.10 ( 31.10 sec) ASCII
 6375     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6376     Date: 02/14/07 Time: 08:53:32 CPU Time: 0 0: 0:31.11 ( 31.11 sec) Binary
 6378     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379     Date: 02/14/07 Time: 08:53:33 CPU Time: 0 0: 0:32.54 ( 32.54 sec) Binary
 6381     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6382     Date: 02/14/07 Time: 08:53:38 CPU Time: 0 0: 0:37.26 ( 37.26 sec) Binary
 6384     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6385     Date: 02/14/07 Time: 08:53:43 CPU Time: 0 0: 0:42.21 ( 42.21 sec) Binary
 6387     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6388     Date: 02/14/07 Time: 08:53:51 CPU Time: 0 0: 0:49.91 ( 49.91 sec) Binary
 6390     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6391     Date: 02/14/07 Time: 08:53:59 CPU Time: 0 0: 0:57.58 ( 57.58 sec) Binary
 6393     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6394     Date: 02/14/07 Time: 08:54:19 CPU Time: 0 0: 1:18.47 ( 78.47 sec) Binary
 6396     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6397     Date: 02/14/07 Time: 08:54:23 CPU Time: 0 0: 1:22.18 ( 82.18 sec) Binary
 6399     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6400     Date: 02/14/07 Time: 08:54:27 CPU Time: 0 0: 1:26.34 ( 86.34 sec) Binary
 6402     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6403     Date: 02/14/07 Time: 08:54:32 CPU Time: 0 0: 1:30.85 ( 90.85 sec) Binary
 6405     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6406     Date: 02/14/07 Time: 08:54:36 CPU Time: 0 0: 1:34.57 ( 94.57 sec) Binary
 6408     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6409     Date: 02/14/07 Time: 08:54:41 CPU Time: 0 0: 1:39.54 ( 99.54 sec) Binary
 6411     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6412     Date: 02/14/07 Time: 08:54:43 CPU Time: 0 0: 1:42.47 ( 102.47 sec) Binary
 6414     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6415     Date: 02/14/07 Time: 08:54:49 CPU Time: 0 0: 1:48.24 ( 108.24 sec) Binary
 6417     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6418     Date: 02/14/07 Time: 08:54:59 CPU Time: 0 0: 1:58.18 ( 118.18 sec) Binary
 6421     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6373     Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 ( 23.15 sec) ASCII
 6375     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6376     Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 ( 23.17 sec) Binary
 6378     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379     Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 ( 24.20 sec) Binary
```

```
 6381     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6382     Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
 6384     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6385     Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 ( 31.15 sec) Binary
 6387     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6388     Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 ( 36.67 sec) Binary
 6390     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6391     Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 ( 42.13 sec) Binary
 6393     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6394     Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 ( 57.61 sec) Binary
 6396     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6397     Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 ( 60.47 sec) Binary
 6399     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6400     Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
 6402     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6403     Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 ( 67.11 sec) Binary
 6405     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6406     Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 ( 69.96 sec) Binary
 6408     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6409     Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 ( 73.56 sec) Binary
 6411     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6412     Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 ( 75.63 sec) Binary
 6414     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6415     Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
 6417     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6418     Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 ( 86.76 sec) Binary
 6421    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
 6429     CPU Time (this time step) = 0.53 sec = 0.00015 hr
 6430     CPU Time (total for run) = 125.85 sec = 0.03496 hr
 6431    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6429     CPU Time (this time step) = 0.37 sec = 0.00010 hr
 6430     CPU Time (total for run) = 92.24 sec = 0.02562 hr
 6431    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
10992     Date: 02/14/07 Time: 08:55:07 CPU Time: 0 0: 2: 5.96 ( 125.96 sec) ASCII
10994     Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995     Date: 02/14/07 Time: 08:55:07 CPU Time: 0 0: 2: 5.96 ( 125.96 sec) Binary
10997     Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998     Date: 02/14/07 Time: 08:55:09 CPU Time: 0 0: 2: 7.28 ( 127.28 sec) Binary
11000     Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001     Date: 02/14/07 Time: 08:55:20 CPU Time: 0 0: 2:18.49 ( 138.49 sec) Binary
11003     Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004     Date: 02/14/07 Time: 08:55:34 CPU Time: 0 0: 2:32.44 ( 152.44 sec) Binary
11006     Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007     Date: 02/14/07 Time: 08:55:40 CPU Time: 0 0: 2:38.41 ( 158.41 sec) Binary
11009     Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010     Date: 02/14/07 Time: 08:55:53 CPU Time: 0 0: 2:51.38 ( 171.38 sec) Binary
11012     Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013     Date: 02/14/07 Time: 08:56:06 CPU Time: 0 0: 3: 4.58 ( 184.58 sec) Binary
11015     Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016     Date: 02/14/07 Time: 08:56:15 CPU Time: 0 0: 3:13.86 ( 193.86 sec) Binary
11018     Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019     Date: 02/14/07 Time: 08:56:30 CPU Time: 0 0: 3:28.46 ( 208.46 sec) Binary
11021     Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022     Date: 02/14/07 Time: 08:56:39 CPU Time: 0 0: 3:37.81 ( 217.81 sec) Binary
11024     Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025     Date: 02/14/07 Time: 08:56:53 CPU Time: 0 0: 3:51.35 ( 231.35 sec) Binary
11027     Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028     Date: 02/14/07 Time: 08:57:03 CPU Time: 0 0: 4: 1.93 ( 241.93 sec) Binary
11030     Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031     Date: 02/14/07 Time: 08:57:15 CPU Time: 0 0: 4:13.39 ( 253.39 sec) Binary
11033     Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034     Date: 02/14/07 Time: 08:57:28 CPU Time: 0 0: 4:26.07 ( 266.07 sec) Binary
11036     Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037     Date: 02/14/07 Time: 08:57:38 CPU Time: 0 0: 4:37.00 ( 277.00 sec) Binary
11039     Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040     Date: 02/14/07 Time: 08:57:51 CPU Time: 0 0: 4:49.66 ( 289.66 sec) Binary
11043    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
10992     Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994     Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995     Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997     Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998     Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000     Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001     Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003     Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004     Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006     Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007     Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009     Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010     Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012     Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013     Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015     Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016     Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018     Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019     Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021     Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022     Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024     Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025     Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027     Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028     Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030     Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031     Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033     Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034     Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036     Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037     Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039     Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040     Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
11051     CPU Time (this time step) = 0.35 sec = 0.00010 hr
11052     CPU Time (total for run) = 291.50 sec = 0.08097 hr
11053    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051     CPU Time (this time step) = 0.25 sec = 0.00007 hr
11052     CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
15614     Date: 02/14/07 Time: 08:57:53 CPU Time: 0 0: 4:51.59 ( 291.59 sec) ASCII
15616     Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617     Date: 02/14/07 Time: 08:57:53 CPU Time: 0 0: 4:51.60 ( 291.60 sec) Binary
15619     Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620     Date: 02/14/07 Time: 08:58:04 CPU Time: 0 0: 5: 1.91 ( 301.91 sec) Binary
15622     Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623     Date: 02/14/07 Time: 08:58:16 CPU Time: 0 0: 5:14.29 ( 314.29 sec) Binary
15625     Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626     Date: 02/14/07 Time: 08:58:27 CPU Time: 0 0: 5:25.18 ( 325.18 sec) Binary
15628     Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629     Date: 02/14/07 Time: 08:58:37 CPU Time: 0 0: 5:35.20 ( 335.20 sec) Binary
15631     Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632     Date: 02/14/07 Time: 08:58:45 CPU Time: 0 0: 5:43.43 ( 343.43 sec) Binary
15635    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614     Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) ASCII
15616     Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617     Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) Binary
15619     Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620     Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 ( 217.40 sec) Binary
15622     Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623     Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 ( 226.08 sec) Binary
15625     Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626     Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 ( 233.73 sec) Binary
15628     Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629     Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
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15631     Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632     Date: 02/14/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 ( 246.55 sec) Binary
15635     ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
15643     CPU Time (this time step) = 0.18 sec = 0.00005 hr
15644     CPU Time (total for run) = 343.97 sec = 0.09555 hr
15645     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643     CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644     CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
20206     Date: 02/14/07 Time: 08:58:46 CPU Time: 0 0: 5:44.08 ( 344.08 sec) ASCII
20208     Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209     Date: 02/14/07 Time: 08:58:46 CPU Time: 0 0: 5:44.11 ( 344.11 sec) Binary
20211     Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212     Date: 02/14/07 Time: 08:58:52 CPU Time: 0 0: 5:50.46 ( 350.46 sec) Binary
20214     Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215     Date: 02/14/07 Time: 08:59:02 CPU Time: 0 0: 5:59.67 ( 359.67 sec) Binary
20217     Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218     Date: 02/14/07 Time: 08:59:10 CPU Time: 0 0: 6: 8.63 ( 368.63 sec) Binary
20220     Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221     Date: 02/14/07 Time: 08:59:16 CPU Time: 0 0: 6:13.86 ( 373.86 sec) Binary
20223     Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224     Date: 02/14/07 Time: 08:59:18 CPU Time: 0 0: 6:16.10 ( 376.10 sec) Binary
20226     Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227     Date: 02/14/07 Time: 08:59:23 CPU Time: 0 0: 6:21.50 ( 381.50 sec) Binary
20229     Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230     Date: 02/14/07 Time: 08:59:36 CPU Time: 0 0: 6:34.04 ( 394.04 sec) Binary
20232     Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233     Date: 02/14/07 Time: 08:59:46 CPU Time: 0 0: 6:44.05 ( 404.05 sec) Binary
20235     Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236     Date: 02/14/07 Time: 08:59:57 CPU Time: 0 0: 6:54.82 ( 414.82 sec) Binary
20238     Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239     Date: 02/14/07 Time: 09:00:06 CPU Time: 0 0: 7: 4.31 ( 424.31 sec) Binary
20241     Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242     Date: 02/14/07 Time: 09:00:18 CPU Time: 0 0: 7:15.71 ( 435.71 sec) Binary
20244     Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245     Date: 02/14/07 Time: 09:00:27 CPU Time: 0 0: 7:24.71 ( 444.71 sec) Binary
20247     Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248     Date: 02/14/07 Time: 09:00:39 CPU Time: 0 0: 7:37.38 ( 457.38 sec) Binary
20250     Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251     Date: 02/14/07 Time: 09:00:47 CPU Time: 0 0: 7:44.55 ( 464.55 sec) Binary
20253     Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254     Date: 02/14/07 Time: 09:00:51 CPU Time: 0 0: 7:49.33 ( 469.33 sec) Binary
20256     Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257     Date: 02/14/07 Time: 09:01:03 CPU Time: 0 0: 8: 1.05 ( 481.05 sec) Binary
20259     Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260     Date: 02/14/07 Time: 09:01:10 CPU Time: 0 0: 8: 8.19 ( 488.19 sec) Binary
20262     Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263     Date: 02/14/07 Time: 09:01:20 CPU Time: 0 0: 8:18.23 ( 498.23 sec) Binary
20265     Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266     Date: 02/14/07 Time: 09:01:27 CPU Time: 0 0: 8:25.32 ( 505.32 sec) Binary
20268     Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269     Date: 02/14/07 Time: 09:01:44 CPU Time: 0 0: 8:42.11 ( 522.11 sec) Binary
20271     Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272     Date: 02/14/07 Time: 09:01:47 CPU Time: 0 0: 8:44.97 ( 524.97 sec) Binary
20274     Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275     Date: 02/14/07 Time: 09:01:52 CPU Time: 0 0: 8:50.20 ( 530.20 sec) Binary
20277     Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278     Date: 02/14/07 Time: 09:01:57 CPU Time: 0 0: 8:54.88 ( 534.88 sec) Binary
20280     Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281     Date: 02/14/07 Time: 09:02:14 CPU Time: 0 0: 9:11.40 ( 551.40 sec) Binary
20283     Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284     Date: 02/14/07 Time: 09:02:17 CPU Time: 0 0: 9:14.88 ( 554.88 sec) Binary
20286     Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287     Date: 02/14/07 Time: 09:02:29 CPU Time: 0 0: 9:27.35 ( 567.35 sec) Binary
20289     Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290     Date: 02/14/07 Time: 09:02:33 CPU Time: 0 0: 9:30.96 ( 570.96 sec) Binary
20292     Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293     Date: 02/14/07 Time: 09:02:40 CPU Time: 0 0: 9:37.66 ( 577.66 sec) Binary
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20295     Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296     Date: 02/14/07 Time: 09:02:47 CPU Time: 0 0: 9:44.46 ( 584.46 sec) Binary
20298     Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299     Date: 02/14/07 Time: 09:02:53 CPU Time: 0 0: 9:51.07 ( 591.07 sec) Binary
20301     Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302     Date: 02/14/07 Time: 09:03:08 CPU Time: 0 0:10: 6.13 ( 606.13 sec) Binary
20304     Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305     Date: 02/14/07 Time: 09:03:12 CPU Time: 0 0:10: 9.95 ( 609.95 sec) Binary
20307     Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308     Date: 02/14/07 Time: 09:03:18 CPU Time: 0 0:10:15.81 ( 615.81 sec) Binary
20310     Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311     Date: 02/14/07 Time: 09:03:25 CPU Time: 0 0:10:23.18 ( 623.18 sec) Binary
20313     Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314     Date: 02/14/07 Time: 09:03:32 CPU Time: 0 0:10:29.82 ( 629.82 sec) Binary
20316     Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317     Date: 02/14/07 Time: 09:03:44 CPU Time: 0 0:10:41.99 ( 641.99 sec) Binary
20319     Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320     Date: 02/14/07 Time: 09:03:51 CPU Time: 0 0:10:48.98 ( 648.98 sec) Binary
20322     Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323     Date: 02/14/07 Time: 09:03:56 CPU Time: 0 0:10:53.41 ( 653.41 sec) Binary
20325     Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326     Date: 02/14/07 Time: 09:04:04 CPU Time: 0 0:11: 1.27 ( 661.27 sec) Binary
20328     Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329     Date: 02/14/07 Time: 09:04:09 CPU Time: 0 0:11: 6.91 ( 666.91 sec) Binary
20331     Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332     Date: 02/14/07 Time: 09:04:20 CPU Time: 0 0:11:17.73 ( 677.73 sec) Binary
20334     Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335     Date: 02/14/07 Time: 09:04:27 CPU Time: 0 0:11:24.72 ( 684.72 sec) Binary
20337     Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338     Date: 02/14/07 Time: 09:04:34 CPU Time: 0 0:11:31.60 ( 691.60 sec) Binary
20340     Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341     Date: 02/14/07 Time: 09:04:43 CPU Time: 0 0:11:40.16 ( 700.16 sec) Binary
20343     Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344     Date: 02/14/07 Time: 09:04:53 CPU Time: 0 0:11:50.34 ( 710.34 sec) Binary
20346     Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347     Date: 02/14/07 Time: 09:05:00 CPU Time: 0 0:11:56.83 ( 716.83 sec) Binary
20349     Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350     Date: 02/14/07 Time: 09:05:10 CPU Time: 0 0:12: 7.04 ( 727.04 sec) Binary
20352     Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353     Date: 02/14/07 Time: 09:05:20 CPU Time: 0 0:12:17.33 ( 737.33 sec) Binary
20355     Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356     Date: 02/14/07 Time: 09:05:29 CPU Time: 0 0:12:26.07 ( 746.07 sec) Binary
20358     Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359     Date: 02/14/07 Time: 09:05:38 CPU Time: 0 0:12:35.51 ( 755.51 sec) Binary
20361     Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362     Date: 02/14/07 Time: 09:05:49 CPU Time: 0 0:12:46.70 ( 766.70 sec) Binary
20364     Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365     Date: 02/14/07 Time: 09:06:00 CPU Time: 0 0:12:57.14 ( 777.14 sec) Binary
20367     Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368     Date: 02/14/07 Time: 09:06:10 CPU Time: 0 0:13: 7.13 ( 787.13 sec) Binary
20370     Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371     Date: 02/14/07 Time: 09:06:20 CPU Time: 0 0:13:17.59 ( 797.59 sec) Binary
20373     Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374     Date: 02/14/07 Time: 09:06:30 CPU Time: 0 0:13:27.49 ( 807.49 sec) Binary
20376     Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377     Date: 02/14/07 Time: 09:06:40 CPU Time: 0 0:13:37.67 ( 817.67 sec) Binary
20379     Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380     Date: 02/14/07 Time: 09:06:49 CPU Time: 0 0:13:46.61 ( 826.61 sec) Binary
20383     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206     Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 ( 247.02 sec) ASCII
20208     Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209     Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 ( 247.03 sec) Binary
20211     Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212     Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 ( 251.52 sec) Binary
20214     Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215     Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 ( 258.00 sec) Binary
20217     Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218     Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
20220     Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221     Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
20223     Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224     Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 ( 269.58 sec) Binary
20226     Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227     Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 ( 273.40 sec) Binary
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20229   Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230   Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 ( 282.23 sec) Binary
20232   Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233   Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 ( 289.27 sec) Binary
20235   Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236   Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
20238   Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239   Date: 02/13/07 Time: 14:16:48 CPU Time: 0 0: 5: 3.47 ( 303.47 sec) Binary
20241   Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242   Date: 02/13/07 Time: 14:16:56 CPU Time: 0 0: 5:11.87 ( 311.87 sec) Binary
20244   Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245   Date: 02/13/07 Time: 14:17:03 CPU Time: 0 0: 5:18.24 ( 318.24 sec) Binary
20247   Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248   Date: 02/13/07 Time: 14:17:12 CPU Time: 0 0: 5:27.26 ( 327.26 sec) Binary
20250   Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251   Date: 02/13/07 Time: 14:17:17 CPU Time: 0 0: 5:32.38 ( 332.38 sec) Binary
20253   Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254   Date: 02/13/07 Time: 14:17:20 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
20256   Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257   Date: 02/13/07 Time: 14:17:29 CPU Time: 0 0: 5:44.17 ( 344.17 sec) Binary
20259   Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260   Date: 02/13/07 Time: 14:17:34 CPU Time: 0 0: 5:49.28 ( 349.28 sec) Binary
20262   Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263   Date: 02/13/07 Time: 14:17:41 CPU Time: 0 0: 5:56.49 ( 356.49 sec) Binary
20265   Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266   Date: 02/13/07 Time: 14:17:46 CPU Time: 0 0: 6: 1.54 ( 361.54 sec) Binary
20268   Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269   Date: 02/13/07 Time: 14:17:58 CPU Time: 0 0: 6:13.53 ( 373.53 sec) Binary
20271   Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272   Date: 02/13/07 Time: 14:18:00 CPU Time: 0 0: 6:15.57 ( 375.57 sec) Binary
20274   Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275   Date: 02/13/07 Time: 14:18:04 CPU Time: 0 0: 6:19.31 ( 379.31 sec) Binary
20277   Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278   Date: 02/13/07 Time: 14:18:07 CPU Time: 0 0: 6:22.68 ( 382.68 sec) Binary
20280   Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281   Date: 02/13/07 Time: 14:18:19 CPU Time: 0 0: 6:34.43 ( 394.43 sec) Binary
20283   Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284   Date: 02/13/07 Time: 14:18:21 CPU Time: 0 0: 6:36.90 ( 396.90 sec) Binary
20286   Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287   Date: 02/13/07 Time: 14:18:30 CPU Time: 0 0: 6:45.75 ( 405.75 sec) Binary
20289   Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290   Date: 02/13/07 Time: 14:18:33 CPU Time: 0 0: 6:48.33 ( 408.33 sec) Binary
20292   Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293   Date: 02/13/07 Time: 14:18:38 CPU Time: 0 0: 6:53.14 ( 413.14 sec) Binary
20295   Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296   Date: 02/13/07 Time: 14:18:43 CPU Time: 0 0: 6:57.99 ( 417.99 sec) Binary
20298   Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299   Date: 02/13/07 Time: 14:18:47 CPU Time: 0 0: 7: 2.60 ( 422.60 sec) Binary
20301   Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302   Date: 02/13/07 Time: 14:18:58 CPU Time: 0 0: 7:13.33 ( 433.33 sec) Binary
20304   Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305   Date: 02/13/07 Time: 14:19:01 CPU Time: 0 0: 7:16.06 ( 436.06 sec) Binary
20307   Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308   Date: 02/13/07 Time: 14:19:05 CPU Time: 0 0: 7:20.22 ( 440.22 sec) Binary
20310   Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311   Date: 02/13/07 Time: 14:19:10 CPU Time: 0 0: 7:25.47 ( 445.47 sec) Binary
20313   Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314   Date: 02/13/07 Time: 14:19:15 CPU Time: 0 0: 7:30.22 ( 450.22 sec) Binary
20316   Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317   Date: 02/13/07 Time: 14:19:24 CPU Time: 0 0: 7:38.96 ( 458.96 sec) Binary
20319   Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320   Date: 02/13/07 Time: 14:19:29 CPU Time: 0 0: 7:43.95 ( 463.95 sec) Binary
20322   Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323   Date: 02/13/07 Time: 14:19:32 CPU Time: 0 0: 7:47.11 ( 467.11 sec) Binary
20325   Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326   Date: 02/13/07 Time: 14:19:38 CPU Time: 0 0: 7:53.17 ( 473.17 sec) Binary
20328   Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329   Date: 02/13/07 Time: 14:19:42 CPU Time: 0 0: 7:57.54 ( 477.54 sec) Binary
20331   Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332   Date: 02/13/07 Time: 14:19:51 CPU Time: 0 0: 8: 5.82 ( 485.82 sec) Binary
20334   Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335   Date: 02/13/07 Time: 14:19:56 CPU Time: 0 0: 8:11.18 ( 491.18 sec) Binary
20337   Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338   Date: 02/13/07 Time: 14:20:01 CPU Time: 0 0: 8:16.49 ( 496.49 sec) Binary
20340   Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341   Date: 02/13/07 Time: 14:20:08 CPU Time: 0 0: 8:23.09 ( 503.09 sec) Binary
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20343    Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344    Date: 02/13/07 Time: 14:20:16 CPU Time: 0 0: 8:30.88 ( 510.88 sec) Binary
20346    Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347    Date: 02/13/07 Time: 14:20:21 CPU Time: 0 0: 8:35.85 ( 515.85 sec) Binary
20349    Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350    Date: 02/13/07 Time: 14:20:29 CPU Time: 0 0: 8:43.66 ( 523.66 sec) Binary
20352    Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353    Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 ( 531.52 sec) Binary
20355    Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356    Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 ( 538.24 sec) Binary
20358    Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359    Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 ( 545.51 sec) Binary
20361    Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362    Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 ( 553.98 sec) Binary
20364    Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365    Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 ( 561.91 sec) Binary
20367    Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368    Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 ( 569.59 sec) Binary
20370    Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371    Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 ( 577.11 sec) Binary
20373    Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374    Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 ( 584.14 sec) Binary
20376    Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377    Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 ( 591.42 sec) Binary
20379    Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380    Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 ( 597.81 sec) Binary
20383    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
20399    CPU Time (this time step) = 0.26 sec = 0.00007 hr
20400    CPU Time (total for run) = 827.76 sec = 0.22993 hr
20401    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399    CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400    CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1
24962    Date: 02/14/07 Time: 09:06:51 CPU Time: 0 0:13:47.86 ( 827.86 sec) ASCII
24964    Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965    Date: 02/14/07 Time: 09:06:51 CPU Time: 0 0:13:47.86 ( 827.86 sec) Binary
24970    ******************************************************************************
24971    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972    * Completed: 02/14/07 at 09:06:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
24973    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962    Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964    Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965    Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970    ******************************************************************************
24971    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972    * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973    ******************************************************************************
************

Number of difference sections found: 17
Number of difference records found: 217

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES40_TEST6.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
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BF2_QB0600_ES45_TEST6_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
    3    ** Begun on: 02/14/07 at 09:15:09 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:43 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_TEST6.INP;1
   62     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_TEST6.INP;1
   62     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_CLOSURE.DAT;1
   67     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_CLOSURE.DAT;1
   67     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   72     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   72     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.SUM;1
   77     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.SUM;1
   77     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.BIN;1
   82     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.BIN;1
   82     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.ROT;1
   87     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST6]BF2_QB0600_ES47_TEST6.ROT;1
   87     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
 1810     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1811     CPU Time (total for run) = 20.08 sec = 0.00558 hr
 1812     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 1810     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1811     CPU Time (total for run) = 23.09 sec = 0.00641 hr
 1812     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
 6373     Date: 02/14/07 Time: 09:15:30 CPU Time: 0 0: 0:20.16 ( 20.16 sec) ASCII
 6375     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6376     Date: 02/14/07 Time: 09:15:30 CPU Time: 0 0: 0:20.17 ( 20.17 sec) Binary
 6378     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379     Date: 02/14/07 Time: 09:15:31 CPU Time: 0 0: 0:21.11 ( 21.11 sec) Binary
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 6381     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6382     Date: 02/14/07 Time: 09:15:34 CPU Time: 0 0: 0:24.18 ( 24.18 sec) Binary
 6384     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6385     Date: 02/14/07 Time: 09:15:37 CPU Time: 0 0: 0:27.41 ( 27.41 sec) Binary
 6387     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6388     Date: 02/14/07 Time: 09:15:42 CPU Time: 0 0: 0:32.43 ( 32.43 sec) Binary
 6390     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6391     Date: 02/14/07 Time: 09:15:47 CPU Time: 0 0: 0:37.40 ( 37.40 sec) Binary
 6393     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6394     Date: 02/14/07 Time: 09:16:01 CPU Time: 0 0: 0:50.93 ( 50.93 sec) Binary
 6396     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6397     Date: 02/14/07 Time: 09:16:03 CPU Time: 0 0: 0:53.37 ( 53.37 sec) Binary
 6399     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6400     Date: 02/14/07 Time: 09:16:06 CPU Time: 0 0: 0:56.07 ( 56.07 sec) Binary
 6402     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6403     Date: 02/14/07 Time: 09:16:09 CPU Time: 0 0: 0:58.94 ( 58.94 sec) Binary
 6405     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6406     Date: 02/14/07 Time: 09:16:11 CPU Time: 0 0: 1: 1.35 ( 61.35 sec) Binary
 6408     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6409     Date: 02/14/07 Time: 09:16:15 CPU Time: 0 0: 1: 4.55 ( 64.55 sec) Binary
 6411     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6412     Date: 02/14/07 Time: 09:16:16 CPU Time: 0 0: 1: 6.44 ( 66.44 sec) Binary
 6414     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6415     Date: 02/14/07 Time: 09:16:20 CPU Time: 0 0: 1:10.15 ( 70.15 sec) Binary
 6417     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6418     Date: 02/14/07 Time: 09:16:27 CPU Time: 0 0: 1:16.59 ( 76.59 sec) Binary
 6421    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6373     Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.15 ( 23.15 sec) ASCII
 6375     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 6376     Date: 02/13/07 Time: 14:12:07 CPU Time: 0 0: 0:23.17 ( 23.17 sec) Binary
 6378     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 6379     Date: 02/13/07 Time: 14:12:08 CPU Time: 0 0: 0:24.20 ( 24.20 sec) Binary
 6381     Time Step No. = 160 Elapsed Time = 6.773074E+00 days
 6382     Date: 02/13/07 Time: 14:12:11 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
 6384     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 6385     Date: 02/13/07 Time: 14:12:15 CPU Time: 0 0: 0:31.15 ( 31.15 sec) Binary
 6387     Time Step No. = 200 Elapsed Time = 1.266619E+03 days
 6388     Date: 02/13/07 Time: 14:12:20 CPU Time: 0 0: 0:36.67 ( 36.67 sec) Binary
 6390     Time Step No. = 220 Elapsed Time = 1.297866E+04 days
 6391     Date: 02/13/07 Time: 14:12:26 CPU Time: 0 0: 0:42.13 ( 42.13 sec) Binary
 6393     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 6394     Date: 02/13/07 Time: 14:12:41 CPU Time: 0 0: 0:57.61 ( 57.61 sec) Binary
 6396     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 6397     Date: 02/13/07 Time: 14:12:44 CPU Time: 0 0: 1: 0.47 ( 60.47 sec) Binary
 6399     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 6400     Date: 02/13/07 Time: 14:12:47 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
 6402     Time Step No. = 300 Elapsed Time = 3.652436E+04 days
 6403     Date: 02/13/07 Time: 14:12:51 CPU Time: 0 0: 1: 7.11 ( 67.11 sec) Binary
 6405     Time Step No. = 320 Elapsed Time = 3.652923E+04 days
 6406     Date: 02/13/07 Time: 14:12:54 CPU Time: 0 0: 1: 9.96 ( 69.96 sec) Binary
 6408     Time Step No. = 340 Elapsed Time = 3.665792E+04 days
 6409     Date: 02/13/07 Time: 14:12:57 CPU Time: 0 0: 1:13.56 ( 73.56 sec) Binary
 6411     Time Step No. = 360 Elapsed Time = 3.666839E+04 days
 6412     Date: 02/13/07 Time: 14:13:00 CPU Time: 0 0: 1:15.63 ( 75.63 sec) Binary
 6414     Time Step No. = 380 Elapsed Time = 3.702040E+04 days
 6415     Date: 02/13/07 Time: 14:13:04 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
 6417     Time Step No. = 400 Elapsed Time = 3.811571E+04 days
 6418     Date: 02/13/07 Time: 14:13:11 CPU Time: 0 0: 1:26.76 ( 86.76 sec) Binary
 6421    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
 6429     CPU Time (this time step) = 0.34 sec = 0.00009 hr
 6430     CPU Time (total for run) = 81.58 sec = 0.02266 hr
 6431    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
 6429     CPU Time (this time step) = 0.37 sec = 0.00010 hr
 6430     CPU Time (total for run) = 92.24 sec = 0.02562 hr
 6431    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
10992     Date: 02/14/07 Time: 09:16:32 CPU Time: 0 0: 1:21.65 ( 81.65 sec) ASCII
```

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10994     Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995     Date: 02/14/07 Time: 09:16:32 CPU Time: 0 0: 1:21.66 ( 81.66 sec) Binary
10997     Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998     Date: 02/14/07 Time: 09:16:33 CPU Time: 0 0: 1:22.53 ( 82.53 sec) Binary
11000     Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001     Date: 02/14/07 Time: 09:16:40 CPU Time: 0 0: 1:29.79 ( 89.79 sec) Binary
11003     Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004     Date: 02/14/07 Time: 09:16:49 CPU Time: 0 0: 1:38.86 ( 98.86 sec) Binary
11006     Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007     Date: 02/14/07 Time: 09:16:53 CPU Time: 0 0: 1:42.73 ( 102.73 sec) Binary
11009     Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010     Date: 02/14/07 Time: 09:17:01 CPU Time: 0 0: 1:51.14 ( 111.14 sec) Binary
11012     Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013     Date: 02/14/07 Time: 09:17:10 CPU Time: 0 0: 1:59.73 ( 119.73 sec) Binary
11015     Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016     Date: 02/14/07 Time: 09:17:16 CPU Time: 0 0: 2: 5.76 ( 125.76 sec) Binary
11018     Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019     Date: 02/14/07 Time: 09:17:25 CPU Time: 0 0: 2:15.25 ( 135.25 sec) Binary
11021     Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022     Date: 02/14/07 Time: 09:17:32 CPU Time: 0 0: 2:21.32 ( 141.32 sec) Binary
11024     Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025     Date: 02/14/07 Time: 09:17:41 CPU Time: 0 0: 2:30.14 ( 150.14 sec) Binary
11027     Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028     Date: 02/14/07 Time: 09:17:48 CPU Time: 0 0: 2:37.02 ( 157.02 sec) Binary
11030     Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031     Date: 02/14/07 Time: 09:17:55 CPU Time: 0 0: 2:44.47 ( 164.47 sec) Binary
11033     Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034     Date: 02/14/07 Time: 09:18:03 CPU Time: 0 0: 2:52.70 ( 172.70 sec) Binary
11036     Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037     Date: 02/14/07 Time: 09:18:10 CPU Time: 0 0: 2:59.82 ( 179.82 sec) Binary
11039     Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040     Date: 02/14/07 Time: 09:18:19 CPU Time: 0 0: 3: 8.06 ( 188.06 sec) Binary
11043     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
10992     Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) ASCII
10994     Time Step No. = 418 Elapsed Time = 7.304861E+04 days
10995     Date: 02/13/07 Time: 14:13:16 CPU Time: 0 0: 1:32.31 ( 92.31 sec) Binary
10997     Time Step No. = 420 Elapsed Time = 8.669839E+04 days
10998     Date: 02/13/07 Time: 14:13:17 CPU Time: 0 0: 1:33.27 ( 93.27 sec) Binary
11000     Time Step No. = 440 Elapsed Time = 2.216406E+05 days
11001     Date: 02/13/07 Time: 14:13:25 CPU Time: 0 0: 1:41.27 ( 101.27 sec) Binary
11003     Time Step No. = 460 Elapsed Time = 2.488238E+05 days
11004     Date: 02/13/07 Time: 14:13:35 CPU Time: 0 0: 1:51.22 ( 111.22 sec) Binary
11006     Time Step No. = 480 Elapsed Time = 2.511960E+05 days
11007     Date: 02/13/07 Time: 14:13:39 CPU Time: 0 0: 1:55.48 ( 115.48 sec) Binary
11009     Time Step No. = 500 Elapsed Time = 2.923516E+05 days
11010     Date: 02/13/07 Time: 14:13:49 CPU Time: 0 0: 2: 4.69 ( 124.69 sec) Binary
11012     Time Step No. = 520 Elapsed Time = 2.937006E+05 days
11013     Date: 02/13/07 Time: 14:13:58 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
11015     Time Step No. = 540 Elapsed Time = 2.996768E+05 days
11016     Date: 02/13/07 Time: 14:14:05 CPU Time: 0 0: 2:20.63 ( 140.63 sec) Binary
11018     Time Step No. = 560 Elapsed Time = 3.032487E+05 days
11019     Date: 02/13/07 Time: 14:14:15 CPU Time: 0 0: 2:31.01 ( 151.01 sec) Binary
11021     Time Step No. = 580 Elapsed Time = 3.049319E+05 days
11022     Date: 02/13/07 Time: 14:14:22 CPU Time: 0 0: 2:37.65 ( 157.65 sec) Binary
11024     Time Step No. = 600 Elapsed Time = 3.135519E+05 days
11025     Date: 02/13/07 Time: 14:14:31 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
11027     Time Step No. = 620 Elapsed Time = 3.149492E+05 days
11028     Date: 02/13/07 Time: 14:14:39 CPU Time: 0 0: 2:54.80 ( 174.80 sec) Binary
11030     Time Step No. = 640 Elapsed Time = 3.161170E+05 days
11031     Date: 02/13/07 Time: 14:14:47 CPU Time: 0 0: 3: 2.94 ( 182.94 sec) Binary
11033     Time Step No. = 660 Elapsed Time = 3.173440E+05 days
11034     Date: 02/13/07 Time: 14:14:56 CPU Time: 0 0: 3:11.95 ( 191.95 sec) Binary
11036     Time Step No. = 680 Elapsed Time = 3.204458E+05 days
11037     Date: 02/13/07 Time: 14:15:04 CPU Time: 0 0: 3:19.71 ( 199.71 sec) Binary
11039     Time Step No. = 700 Elapsed Time = 3.283157E+05 days
11040     Date: 02/13/07 Time: 14:15:13 CPU Time: 0 0: 3:28.72 ( 208.72 sec) Binary
11043     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
11051     CPU Time (this time step) = 0.23 sec = 0.00006 hr
11052     CPU Time (total for run) = 189.26 sec = 0.05257 hr
11053     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
11051     CPU Time (this time step) = 0.25 sec = 0.00007 hr
11052     CPU Time (total for run) = 210.03 sec = 0.05834 hr
11053     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
15614     Date: 02/14/07 Time: 09:18:20 CPU Time: 0 0: 3: 9.34 ( 189.34 sec) ASCII
15616     Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617     Date: 02/14/07 Time: 09:18:20 CPU Time: 0 0: 3: 9.35 ( 189.35 sec) Binary
15619     Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620     Date: 02/14/07 Time: 09:18:27 CPU Time: 0 0: 3:15.99 ( 195.99 sec) Binary
15622     Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623     Date: 02/14/07 Time: 09:18:34 CPU Time: 0 0: 3:23.94 ( 203.94 sec) Binary
15625     Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626     Date: 02/14/07 Time: 09:18:41 CPU Time: 0 0: 3:30.93 ( 210.93 sec) Binary
15628     Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629     Date: 02/14/07 Time: 09:18:48 CPU Time: 0 0: 3:37.36 ( 217.36 sec) Binary
15631     Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632     Date: 02/14/07 Time: 09:18:53 CPU Time: 0 0: 3:42.66 ( 222.66 sec) Binary
15635     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15614     Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) ASCII
15616     Time Step No. = 703 Elapsed Time = 3.287179E+05 days
15617     Date: 02/13/07 Time: 14:15:14 CPU Time: 0 0: 3:30.12 ( 210.12 sec) Binary
15619     Time Step No. = 720 Elapsed Time = 3.327229E+05 days
15620     Date: 02/13/07 Time: 14:15:22 CPU Time: 0 0: 3:37.40 ( 217.40 sec) Binary
15622     Time Step No. = 740 Elapsed Time = 3.346052E+05 days
15623     Date: 02/13/07 Time: 14:15:30 CPU Time: 0 0: 3:46.08 ( 226.08 sec) Binary
15625     Time Step No. = 760 Elapsed Time = 3.499571E+05 days
15626     Date: 02/13/07 Time: 14:15:38 CPU Time: 0 0: 3:53.73 ( 233.73 sec) Binary
15628     Time Step No. = 780 Elapsed Time = 3.566330E+05 days
15629     Date: 02/13/07 Time: 14:15:45 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
15631     Time Step No. = 800 Elapsed Time = 3.652602E+05 days
15632     Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 6.55 ( 246.55 sec) Binary
15635     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
15643     CPU Time (this time step) = 0.12 sec = 0.00003 hr
15644     CPU Time (total for run) = 223.01 sec = 0.06195 hr
15645     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
15643     CPU Time (this time step) = 0.13 sec = 0.00004 hr
15644     CPU Time (total for run) = 246.93 sec = 0.06859 hr
15645     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
20206     Date: 02/14/07 Time: 09:18:54 CPU Time: 0 0: 3:43.08 ( 223.08 sec) ASCII
20208     Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209     Date: 02/14/07 Time: 09:18:54 CPU Time: 0 0: 3:43.09 ( 223.09 sec) Binary
20211     Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212     Date: 02/14/07 Time: 09:18:58 CPU Time: 0 0: 3:47.18 ( 227.18 sec) Binary
20214     Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215     Date: 02/14/07 Time: 09:19:04 CPU Time: 0 0: 3:53.09 ( 233.09 sec) Binary
20217     Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218     Date: 02/14/07 Time: 09:19:09 CPU Time: 0 0: 3:58.85 ( 238.85 sec) Binary
20220     Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221     Date: 02/14/07 Time: 09:19:13 CPU Time: 0 0: 4: 2.20 ( 242.20 sec) Binary
20223     Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224     Date: 02/14/07 Time: 09:19:14 CPU Time: 0 0: 4: 3.64 ( 243.64 sec) Binary
20226     Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227     Date: 02/14/07 Time: 09:19:18 CPU Time: 0 0: 4: 7.12 ( 247.12 sec) Binary
20229     Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230     Date: 02/14/07 Time: 09:19:26 CPU Time: 0 0: 4:15.20 ( 255.20 sec) Binary
20232     Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233     Date: 02/14/07 Time: 09:19:32 CPU Time: 0 0: 4:21.64 ( 261.64 sec) Binary
20235     Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236     Date: 02/14/07 Time: 09:19:39 CPU Time: 0 0: 4:28.49 ( 268.49 sec) Binary
20238     Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239     Date: 02/14/07 Time: 09:19:45 CPU Time: 0 0: 4:34.59 ( 274.59 sec) Binary
20241     Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242     Date: 02/14/07 Time: 09:19:53 CPU Time: 0 0: 4:41.96 ( 281.96 sec) Binary
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20244    Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245    Date: 02/14/07 Time: 09:19:58 CPU Time: 0 0: 4:47.72 ( 287.72 sec) Binary
20247    Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248    Date: 02/14/07 Time: 09:20:06 CPU Time: 0 0: 4:55.87 ( 295.87 sec) Binary
20250    Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251    Date: 02/14/07 Time: 09:20:11 CPU Time: 0 0: 5: 0.48 ( 300.48 sec) Binary
20253    Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254    Date: 02/14/07 Time: 09:20:14 CPU Time: 0 0: 5: 3.56 ( 303.56 sec) Binary
20256    Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257    Date: 02/14/07 Time: 09:20:22 CPU Time: 0 0: 5:11.13 ( 311.13 sec) Binary
20259    Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260    Date: 02/14/07 Time: 09:20:26 CPU Time: 0 0: 5:15.75 ( 315.75 sec) Binary
20262    Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263    Date: 02/14/07 Time: 09:20:33 CPU Time: 0 0: 5:22.24 ( 322.24 sec) Binary
20265    Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266    Date: 02/14/07 Time: 09:20:37 CPU Time: 0 0: 5:26.81 ( 326.81 sec) Binary
20268    Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269    Date: 02/14/07 Time: 09:20:48 CPU Time: 0 0: 5:37.65 ( 337.65 sec) Binary
20271    Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272    Date: 02/14/07 Time: 09:20:50 CPU Time: 0 0: 5:39.47 ( 339.47 sec) Binary
20274    Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275    Date: 02/14/07 Time: 09:20:54 CPU Time: 0 0: 5:42.83 ( 342.83 sec) Binary
20277    Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278    Date: 02/14/07 Time: 09:20:57 CPU Time: 0 0: 5:45.85 ( 345.85 sec) Binary
20280    Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281    Date: 02/14/07 Time: 09:21:07 CPU Time: 0 0: 5:56.46 ( 356.46 sec) Binary
20283    Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284    Date: 02/14/07 Time: 09:21:09 CPU Time: 0 0: 5:58.69 ( 358.69 sec) Binary
20286    Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287    Date: 02/14/07 Time: 09:21:17 CPU Time: 0 0: 6: 6.68 ( 366.68 sec) Binary
20289    Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290    Date: 02/14/07 Time: 09:21:20 CPU Time: 0 0: 6: 9.02 ( 369.02 sec) Binary
20292    Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293    Date: 02/14/07 Time: 09:21:24 CPU Time: 0 0: 6:13.34 ( 373.34 sec) Binary
20295    Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296    Date: 02/14/07 Time: 09:21:28 CPU Time: 0 0: 6:17.72 ( 377.72 sec) Binary
20298    Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299    Date: 02/14/07 Time: 09:21:33 CPU Time: 0 0: 6:21.89 ( 381.89 sec) Binary
20301    Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302    Date: 02/14/07 Time: 09:21:42 CPU Time: 0 0: 6:31.58 ( 391.58 sec) Binary
20304    Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305    Date: 02/14/07 Time: 09:21:45 CPU Time: 0 0: 6:34.02 ( 394.02 sec) Binary
20307    Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308    Date: 02/14/07 Time: 09:21:49 CPU Time: 0 0: 6:37.77 ( 397.77 sec) Binary
20310    Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311    Date: 02/14/07 Time: 09:21:53 CPU Time: 0 0: 6:42.47 ( 402.47 sec) Binary
20313    Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314    Date: 02/14/07 Time: 09:21:58 CPU Time: 0 0: 6:46.75 ( 406.75 sec) Binary
20316    Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317    Date: 02/14/07 Time: 09:22:06 CPU Time: 0 0: 6:54.62 ( 414.62 sec) Binary
20319    Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320    Date: 02/14/07 Time: 09:22:10 CPU Time: 0 0: 6:59.12 ( 419.12 sec) Binary
20322    Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323    Date: 02/14/07 Time: 09:22:13 CPU Time: 0 0: 7: 1.97 ( 421.97 sec) Binary
20325    Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326    Date: 02/14/07 Time: 09:22:18 CPU Time: 0 0: 7: 7.03 ( 427.03 sec) Binary
20328    Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329    Date: 02/14/07 Time: 09:22:22 CPU Time: 0 0: 7:10.69 ( 430.69 sec) Binary
20331    Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332    Date: 02/14/07 Time: 09:22:29 CPU Time: 0 0: 7:17.64 ( 437.64 sec) Binary
20334    Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335    Date: 02/14/07 Time: 09:22:34 CPU Time: 0 0: 7:22.13 ( 442.13 sec) Binary
20337    Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338    Date: 02/14/07 Time: 09:22:38 CPU Time: 0 0: 7:26.58 ( 446.58 sec) Binary
20340    Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341    Date: 02/14/07 Time: 09:22:44 CPU Time: 0 0: 7:32.10 ( 452.10 sec) Binary
20343    Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344    Date: 02/14/07 Time: 09:22:50 CPU Time: 0 0: 7:38.65 ( 458.65 sec) Binary
20346    Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347    Date: 02/14/07 Time: 09:22:54 CPU Time: 0 0: 7:42.82 ( 462.82 sec) Binary
20349    Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350    Date: 02/14/07 Time: 09:23:01 CPU Time: 0 0: 7:49.38 ( 469.38 sec) Binary
20352    Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353    Date: 02/14/07 Time: 09:23:08 CPU Time: 0 0: 7:56.00 ( 476.00 sec) Binary
20355    Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356    Date: 02/14/07 Time: 09:23:13 CPU Time: 0 0: 8: 1.64 ( 481.64 sec) Binary
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20358    Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359    Date: 02/14/07 Time: 09:23:19 CPU Time: 0 0: 8: 7.73 ( 487.73 sec) Binary
20361    Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362    Date: 02/14/07 Time: 09:23:26 CPU Time: 0 0: 8:14.86 ( 494.86 sec) Binary
20364    Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365    Date: 02/14/07 Time: 09:23:33 CPU Time: 0 0: 8:21.58 ( 501.58 sec) Binary
20367    Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368    Date: 02/14/07 Time: 09:23:40 CPU Time: 0 0: 8:28.02 ( 508.02 sec) Binary
20370    Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371    Date: 02/14/07 Time: 09:23:46 CPU Time: 0 0: 8:34.72 ( 514.72 sec) Binary
20373    Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374    Date: 02/14/07 Time: 09:23:53 CPU Time: 0 0: 8:41.05 ( 521.05 sec) Binary
20376    Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377    Date: 02/14/07 Time: 09:23:59 CPU Time: 0 0: 8:47.63 ( 527.63 sec) Binary
20379    Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380    Date: 02/14/07 Time: 09:24:05 CPU Time: 0 0: 8:53.39 ( 533.39 sec) Binary
20383    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20206    Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.02 ( 247.02 sec) ASCII
20208    Time Step No. = 803 Elapsed Time = 3.652644E+05 days
20209    Date: 02/13/07 Time: 14:15:51 CPU Time: 0 0: 4: 7.03 ( 247.03 sec) Binary
20211    Time Step No. = 820 Elapsed Time = 3.653083E+05 days
20212    Date: 02/13/07 Time: 14:15:56 CPU Time: 0 0: 4:11.52 ( 251.52 sec) Binary
20214    Time Step No. = 840 Elapsed Time = 3.654241E+05 days
20215    Date: 02/13/07 Time: 14:16:02 CPU Time: 0 0: 4:18.00 ( 258.00 sec) Binary
20217    Time Step No. = 860 Elapsed Time = 3.659611E+05 days
20218    Date: 02/13/07 Time: 14:16:09 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
20220    Time Step No. = 880 Elapsed Time = 3.665388E+05 days
20221    Date: 02/13/07 Time: 14:16:12 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
20223    Time Step No. = 900 Elapsed Time = 3.665643E+05 days
20224    Date: 02/13/07 Time: 14:16:14 CPU Time: 0 0: 4:29.58 ( 269.58 sec) Binary
20226    Time Step No. = 920 Elapsed Time = 3.687806E+05 days
20227    Date: 02/13/07 Time: 14:16:18 CPU Time: 0 0: 4:33.40 ( 273.40 sec) Binary
20229    Time Step No. = 940 Elapsed Time = 3.726602E+05 days
20230    Date: 02/13/07 Time: 14:16:27 CPU Time: 0 0: 4:42.23 ( 282.23 sec) Binary
20232    Time Step No. = 960 Elapsed Time = 3.777459E+05 days
20233    Date: 02/13/07 Time: 14:16:34 CPU Time: 0 0: 4:49.27 ( 289.27 sec) Binary
20235    Time Step No. = 980 Elapsed Time = 3.943263E+05 days
20236    Date: 02/13/07 Time: 14:16:41 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
20238    Time Step No. = 1000 Elapsed Time = 4.162550E+05 days
20239    Date: 02/13/07 Time: 14:16:48 CPU Time: 0 0: 5: 3.47 ( 303.47 sec) Binary
20241    Time Step No. = 1020 Elapsed Time = 4.353864E+05 days
20242    Date: 02/13/07 Time: 14:16:56 CPU Time: 0 0: 5:11.87 ( 311.87 sec) Binary
20244    Time Step No. = 1040 Elapsed Time = 4.585234E+05 days
20245    Date: 02/13/07 Time: 14:17:03 CPU Time: 0 0: 5:18.24 ( 318.24 sec) Binary
20247    Time Step No. = 1060 Elapsed Time = 5.099879E+05 days
20248    Date: 02/13/07 Time: 14:17:12 CPU Time: 0 0: 5:27.26 ( 327.26 sec) Binary
20250    Time Step No. = 1080 Elapsed Time = 5.143304E+05 days
20251    Date: 02/13/07 Time: 14:17:17 CPU Time: 0 0: 5:32.38 ( 332.38 sec) Binary
20253    Time Step No. = 1100 Elapsed Time = 5.154704E+05 days
20254    Date: 02/13/07 Time: 14:17:20 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
20256    Time Step No. = 1120 Elapsed Time = 5.565073E+05 days
20257    Date: 02/13/07 Time: 14:17:29 CPU Time: 0 0: 5:44.17 ( 344.17 sec) Binary
20259    Time Step No. = 1140 Elapsed Time = 5.900105E+05 days
20260    Date: 02/13/07 Time: 14:17:34 CPU Time: 0 0: 5:49.28 ( 349.28 sec) Binary
20262    Time Step No. = 1160 Elapsed Time = 5.917396E+05 days
20263    Date: 02/13/07 Time: 14:17:41 CPU Time: 0 0: 5:56.49 ( 356.49 sec) Binary
20265    Time Step No. = 1180 Elapsed Time = 6.207847E+05 days
20266    Date: 02/13/07 Time: 14:17:46 CPU Time: 0 0: 6: 1.54 ( 361.54 sec) Binary
20268    Time Step No. = 1200 Elapsed Time = 7.988527E+05 days
20269    Date: 02/13/07 Time: 14:17:58 CPU Time: 0 0: 6:13.53 ( 373.53 sec) Binary
20271    Time Step No. = 1220 Elapsed Time = 7.990476E+05 days
20272    Date: 02/13/07 Time: 14:18:00 CPU Time: 0 0: 6:15.57 ( 375.57 sec) Binary
20274    Time Step No. = 1240 Elapsed Time = 7.999523E+05 days
20275    Date: 02/13/07 Time: 14:18:04 CPU Time: 0 0: 6:19.31 ( 379.31 sec) Binary
20277    Time Step No. = 1260 Elapsed Time = 8.036273E+05 days
20278    Date: 02/13/07 Time: 14:18:07 CPU Time: 0 0: 6:22.68 ( 382.68 sec) Binary
20280    Time Step No. = 1280 Elapsed Time = 8.095812E+05 days
20281    Date: 02/13/07 Time: 14:18:19 CPU Time: 0 0: 6:34.43 ( 394.43 sec) Binary
20283    Time Step No. = 1300 Elapsed Time = 8.097922E+05 days
20284    Date: 02/13/07 Time: 14:18:21 CPU Time: 0 0: 6:36.90 ( 396.90 sec) Binary
20286    Time Step No. = 1320 Elapsed Time = 8.172796E+05 days
20287    Date: 02/13/07 Time: 14:18:30 CPU Time: 0 0: 6:45.75 ( 405.75 sec) Binary
20289    Time Step No. = 1340 Elapsed Time = 8.174733E+05 days
20290    Date: 02/13/07 Time: 14:18:33 CPU Time: 0 0: 6:48.33 ( 408.33 sec) Binary
```

```
20292     Time Step No. = 1360 Elapsed Time = 8.176452E+05 days
20293     Date: 02/13/07 Time: 14:18:38 CPU Time: 0 0: 6:53.14 ( 413.14 sec) Binary
20295     Time Step No. = 1380 Elapsed Time = 8.205265E+05 days
20296     Date: 02/13/07 Time: 14:18:43 CPU Time: 0 0: 6:57.99 ( 417.99 sec) Binary
20298     Time Step No. = 1400 Elapsed Time = 8.478698E+05 days
20299     Date: 02/13/07 Time: 14:18:47 CPU Time: 0 0: 7: 2.60 ( 422.60 sec) Binary
20301     Time Step No. = 1420 Elapsed Time = 1.025254E+06 days
20302     Date: 02/13/07 Time: 14:18:58 CPU Time: 0 0: 7:13.33 ( 433.33 sec) Binary
20304     Time Step No. = 1440 Elapsed Time = 1.025565E+06 days
20305     Date: 02/13/07 Time: 14:19:01 CPU Time: 0 0: 7:16.06 ( 436.06 sec) Binary
20307     Time Step No. = 1460 Elapsed Time = 1.026679E+06 days
20308     Date: 02/13/07 Time: 14:19:05 CPU Time: 0 0: 7:20.22 ( 440.22 sec) Binary
20310     Time Step No. = 1480 Elapsed Time = 1.039111E+06 days
20311     Date: 02/13/07 Time: 14:19:10 CPU Time: 0 0: 7:25.47 ( 445.47 sec) Binary
20313     Time Step No. = 1500 Elapsed Time = 1.047557E+06 days
20314     Date: 02/13/07 Time: 14:19:15 CPU Time: 0 0: 7:30.22 ( 450.22 sec) Binary
20316     Time Step No. = 1520 Elapsed Time = 1.047671E+06 days
20317     Date: 02/13/07 Time: 14:19:24 CPU Time: 0 0: 7:38.96 ( 458.96 sec) Binary
20319     Time Step No. = 1540 Elapsed Time = 1.047991E+06 days
20320     Date: 02/13/07 Time: 14:19:29 CPU Time: 0 0: 7:43.95 ( 463.95 sec) Binary
20322     Time Step No. = 1560 Elapsed Time = 1.052298E+06 days
20323     Date: 02/13/07 Time: 14:19:32 CPU Time: 0 0: 7:47.11 ( 467.11 sec) Binary
20325     Time Step No. = 1580 Elapsed Time = 1.207615E+06 days
20326     Date: 02/13/07 Time: 14:19:38 CPU Time: 0 0: 7:53.17 ( 473.17 sec) Binary
20328     Time Step No. = 1600 Elapsed Time = 1.311097E+06 days
20329     Date: 02/13/07 Time: 14:19:42 CPU Time: 0 0: 7:57.54 ( 477.54 sec) Binary
20331     Time Step No. = 1620 Elapsed Time = 1.322737E+06 days
20332     Date: 02/13/07 Time: 14:19:51 CPU Time: 0 0: 8: 5.82 ( 485.82 sec) Binary
20334     Time Step No. = 1640 Elapsed Time = 1.334443E+06 days
20335     Date: 02/13/07 Time: 14:19:56 CPU Time: 0 0: 8:11.18 ( 491.18 sec) Binary
20337     Time Step No. = 1660 Elapsed Time = 1.375587E+06 days
20338     Date: 02/13/07 Time: 14:20:01 CPU Time: 0 0: 8:16.49 ( 496.49 sec) Binary
20340     Time Step No. = 1680 Elapsed Time = 1.524609E+06 days
20341     Date: 02/13/07 Time: 14:20:08 CPU Time: 0 0: 8:23.09 ( 503.09 sec) Binary
20343     Time Step No. = 1700 Elapsed Time = 1.718303E+06 days
20344     Date: 02/13/07 Time: 14:20:16 CPU Time: 0 0: 8:30.88 ( 510.88 sec) Binary
20346     Time Step No. = 1720 Elapsed Time = 1.734169E+06 days
20347     Date: 02/13/07 Time: 14:20:21 CPU Time: 0 0: 8:35.85 ( 515.85 sec) Binary
20349     Time Step No. = 1740 Elapsed Time = 2.019845E+06 days
20350     Date: 02/13/07 Time: 14:20:29 CPU Time: 0 0: 8:43.66 ( 523.66 sec) Binary
20352     Time Step No. = 1760 Elapsed Time = 2.027910E+06 days
20353     Date: 02/13/07 Time: 14:20:36 CPU Time: 0 0: 8:51.52 ( 531.52 sec) Binary
20355     Time Step No. = 1780 Elapsed Time = 2.089115E+06 days
20356     Date: 02/13/07 Time: 14:20:43 CPU Time: 0 0: 8:58.24 ( 538.24 sec) Binary
20358     Time Step No. = 1800 Elapsed Time = 2.128138E+06 days
20359     Date: 02/13/07 Time: 14:20:50 CPU Time: 0 0: 9: 5.51 ( 545.51 sec) Binary
20361     Time Step No. = 1820 Elapsed Time = 2.402891E+06 days
20362     Date: 02/13/07 Time: 14:20:59 CPU Time: 0 0: 9:13.98 ( 553.98 sec) Binary
20364     Time Step No. = 1840 Elapsed Time = 2.466271E+06 days
20365     Date: 02/13/07 Time: 14:21:07 CPU Time: 0 0: 9:21.91 ( 561.91 sec) Binary
20367     Time Step No. = 1860 Elapsed Time = 2.672622E+06 days
20368     Date: 02/13/07 Time: 14:21:15 CPU Time: 0 0: 9:29.59 ( 569.59 sec) Binary
20370     Time Step No. = 1880 Elapsed Time = 2.865793E+06 days
20371     Date: 02/13/07 Time: 14:21:22 CPU Time: 0 0: 9:37.11 ( 577.11 sec) Binary
20373     Time Step No. = 1900 Elapsed Time = 2.904071E+06 days
20374     Date: 02/13/07 Time: 14:21:29 CPU Time: 0 0: 9:44.14 ( 584.14 sec) Binary
20376     Time Step No. = 1920 Elapsed Time = 3.211642E+06 days
20377     Date: 02/13/07 Time: 14:21:36 CPU Time: 0 0: 9:51.42 ( 591.42 sec) Binary
20379     Time Step No. = 1940 Elapsed Time = 3.611642E+06 days
20380     Date: 02/13/07 Time: 14:21:43 CPU Time: 0 0: 9:57.81 ( 597.81 sec) Binary
20383     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
20399     CPU Time (this time step) = 0.17 sec = 0.00005 hr
20400     CPU Time (total for run) = 534.13 sec = 0.14837 hr
20401    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
20399     CPU Time (this time step) = 0.20 sec = 0.00006 hr
20400     CPU Time (total for run) = 598.64 sec = 0.16629 hr
20401    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1
24962     Date: 02/14/07 Time: 09:24:06 CPU Time: 0 0: 8:54.21 ( 534.21 sec) ASCII
```

```
24964     Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965     Date: 02/14/07 Time: 09:24:06 CPU Time: 0 0: 8:54.22 ( 534.22 sec) Binary
24970     *****************************************************************************
24971     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972     * Completed: 02/14/07 at 09:24:06 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
24973     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
24962     Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.73 ( 598.73 sec) ASCII
24964     Time Step No. = 1943 Elapsed Time = 3.652431E+06 days
24965     Date: 02/13/07 Time: 14:21:44 CPU Time: 0 0: 9:58.75 ( 598.75 sec) Binary
24970     *****************************************************************************
24971     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
24972     * Completed: 02/13/07 at 14:21:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
24973     *****************************************************************************
************

Number of difference sections found: 17
Number of difference records found: 217

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES45_TEST6.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST6]BF2_QB0600_ES47_TEST6.OUT;1
```

A.7 Test Case 7 Files

A.7.1 Test Case 7: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST7_V001_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V001.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V001.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V001.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V001.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V001.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V001.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V002_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V002.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V002.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V002.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V002.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V002.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V002.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V003_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V003.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V003.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V003.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V003.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V003.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V003.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V004_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V004.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V004.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V004.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V004.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V004.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V004.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V005_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V005.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V005.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V005.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V005.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V005.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V005.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V006_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V006.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V006.OUT
```

```
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V006.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V006.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V006.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V006.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V007_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V007.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V007.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V007.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V007.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V007.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V007.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V008_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V008.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V008.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V008.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V008.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V008.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V008.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V009_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V009.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V009.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V009.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V009.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V009.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V009.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V010_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V010.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V010.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V010.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V010.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V010.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V010.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V011_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V011.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V011.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V011.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V011.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V011.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V011.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
```

```
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V012_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V012.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V012.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V012.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V012.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V012.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V012.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V013_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V013.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V013.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V013.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V013.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V013.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V013.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V014_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V014.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V014.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V014.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V014.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V014.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V014.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V015_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V015.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V015.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V015.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V015.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V015.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V015.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V016_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V016.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V016.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V016.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V016.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V016.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V016.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V017_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V017.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V017.OUT
```

```
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V017.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V017.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V017.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V017.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V018_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V018.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V018.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V018.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V018.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V018.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V018.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V019_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V019.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V019.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V019.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V019.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V019.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V019.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST7_V020_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V020.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST7_V020.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST7_V020.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST7_V020.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST7_V020.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST7_V020.ROT
$   set noverify

          image name: "BRAGFLO_QB0600"
          image file identification: "P QB0600 6.0"
          image file build identification: ""
          link date/time: 12-FEB-2007 14:57:24.36
          linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V001_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V001.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V001.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V001.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V001.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V001.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V001.ROT
$   set noverify

          image name: "BRAGFLO_QB0600"
          image file identification: "P QB0600 6.0"
          image file build identification: ""
          link date/time: 12-FEB-2007 14:57:24.36
          linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V002_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V002.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V002.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V002.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V002.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V002.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V002.ROT
$   set noverify

          image name: "BRAGFLO_QB0600"
          image file identification: "P QB0600 6.0"
          image file build identification: ""
          link date/time: 12-FEB-2007 14:57:24.36
```

```
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V003_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V003.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V003.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V003.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V003.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V003.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V003.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V004_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V004.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V004.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V004.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V004.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V004.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V004.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V005_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V005.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V005.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V005.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V005.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V005.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V005.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V006_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V006.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V006.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V006.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V006.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V006.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V006.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V007_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V007.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V007.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V007.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V007.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V007.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V007.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V008_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V008.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V008.OUT
```

```
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V008.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V008.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V008.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V008.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V009_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V009.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V009.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V009.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V009.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V009.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V009.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V010_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V010.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V010.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V010.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V010.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V010.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V010.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V011_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V011.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V011.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V011.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V011.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V011.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V011.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V012_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V012.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V012.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V012.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V012.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V012.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V012.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V013_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST7_V013.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_TEST7_V013.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_TEST7_V013.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_TEST7_V013.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_TEST7_V013.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_TEST7_V013.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
```

```
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V014_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V014.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V014.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V014.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V014.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V014.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V014.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V015_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V015.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V015.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V015.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V015.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V015.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V015.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V016_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V016.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V016.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V016.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V016.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V016.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V016.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V017_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V017.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V017.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V017.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V017.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V017.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V017.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V018_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V018.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V018.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V018.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V018.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V018.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V018.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V019_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V019.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V019.OUT
```

```
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V019.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V019.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V019.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V019.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST7_V020_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V020.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST7_V020.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST7_V020.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST7_V020.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST7_V020.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST7_V020.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V001_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V001.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V001.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V001.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V001.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V001.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V001.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V002_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V002.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V002.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V002.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V002.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V002.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V002.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V003_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V003.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V003.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V003.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V003.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V003.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V003.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V004_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V004.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V004.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V004.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V004.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V004.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V004.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
```

```
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V005_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V005.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V005.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V005.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V005.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V005.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V005.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V006_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V006.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V006.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V006.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V006.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V006.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V006.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V007_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V007.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V007.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V007.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V007.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V007.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V007.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V008_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V008.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V008.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V008.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V008.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V008.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V008.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V009_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V009.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V009.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V009.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V009.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V009.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V009.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V010_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V010.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V010.OUT
```

```
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V010.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V010.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V010.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V010.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V011_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V011.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V011.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V011.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V011.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V011.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V011.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V012_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V012.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V012.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V012.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V012.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V012.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V012.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V013_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V013.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V013.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V013.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V013.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V013.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V013.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V014_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V014.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V014.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V014.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V014.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V014.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V014.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V015_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V015.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V015.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V015.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V015.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V015.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V015.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
```

```
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V016_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V016.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V016.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V016.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V016.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V016.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V016.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V017_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V017.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V017.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V017.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V017.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V017.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V017.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V018_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V018.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V018.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V018.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V018.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V018.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V018.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V019_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V019.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V019.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V019.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V019.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V019.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V019.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST7_V020_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST7_V020.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST7_V020.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST7_V020.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST7_V020.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST7_V020.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST7_V020.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.7.2 Test Case 7: Input Files, BF2_QB0600_TEST7_Vnnn.INP (where nnn = 1 to 20)

BF2_QB0600_TEST7_V001.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
```

```
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
```

```
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
   34  140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35   69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11   10    1
   17   10    1
   25   12    1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1    2    1    7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.772118E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.772118E-01  4.800000E+00
```

```
2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
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1.293640E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
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1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
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5.176014E+02
6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
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3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
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3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
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3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
6.523721E+02
1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
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3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
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3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
3.791631E+02  3.823307E+02  3.852366E+02  3.857602E+02  3.863710E+02  3.912577E+02
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3.971516E+02  3.975879E+02  3.988096E+02  4.040453E+02  4.236793E+02  4.825811E+02
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3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
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4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
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6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
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7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
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7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
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7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
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7.977001E+02					
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8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
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8.358001E+02					
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8.524501E+02					
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8.653501E+02					
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9.270001E+02					
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1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
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 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.510225E+07
 1.510225E+07
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 1.480060E+07  1.480060E+07  1.480060E+07  1.480060E+07  1.480060E+07
 1.480060E+07
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 1.394944E+07  1.394418E+07  1.393853E+07  1.393288E+07  1.393161E+07
 1.393136E+07  1.393111E+07  1.392985E+07  1.392420E+07  1.391539E+07
 1.390068E+07  1.383816E+07  1.377564E+07  1.375672E+07  1.371858E+07
 1.368359E+07  1.367728E+07  1.366993E+07  1.361108E+07  1.355749E+07
 1.355224E+07  1.353753E+07  1.347448E+07  1.323806E+07  1.252878E+07
 1.042721E+07
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1.593574E+07	1.383417E+07	1.312489E+07	1.288846E+07	1.282542E+07
1.281071E+07	1.280545E+07	1.279980E+07	1.279415E+07	1.279289E+07
1.279263E+07	1.279238E+07	1.279112E+07	1.278547E+07	1.277666E+07
1.276195E+07	1.269943E+07	1.263691E+07	1.261799E+07	1.257985E+07
1.254486E+07	1.253855E+07	1.253120E+07	1.247235E+07	1.241876E+07
1.241351E+07	1.239880E+07	1.233575E+07	1.209933E+07	1.139005E+07
9.288480E+06				
1.556852E+07	1.346695E+07	1.275768E+07	1.252125E+07	1.245820E+07
1.244349E+07	1.243824E+07	1.243258E+07	1.242693E+07	1.242567E+07
1.242542E+07	1.242516E+07	1.242390E+07	1.241825E+07	1.240945E+07
1.239473E+07	1.233221E+07	1.226969E+07	1.225078E+07	1.221263E+07
1.217764E+07	1.217134E+07	1.216398E+07	1.210514E+07	1.205155E+07
1.204629E+07	1.203158E+07	1.196854E+07	1.173211E+07	1.102283E+07
8.921264E+06				
1.549718E+07	1.339562E+07	1.268634E+07	1.244991E+07	1.238687E+07
1.237215E+07	1.236690E+07	1.236125E+07	1.235559E+07	1.235433E+07
1.235408E+07	1.235383E+07	1.235257E+07	1.234691E+07	1.233811E+07
1.232340E+07	1.226088E+07	1.219835E+07	1.217944E+07	1.214130E+07
1.210631E+07	1.013250E+05	1.209265E+07	1.203380E+07	1.198021E+07
1.197496E+07	1.196025E+07	1.189720E+07	1.166077E+07	1.095150E+07
8.849928E+06				
1.548376E+07	1.338219E+07	1.267291E+07	1.243649E+07	1.237344E+07
1.235873E+07	1.235348E+07	1.234782E+07	1.234217E+07	1.234091E+07
1.234066E+07	1.234040E+07	1.233914E+07	1.233349E+07	1.232468E+07
1.230997E+07	1.224745E+07	1.218493E+07	1.216602E+07	1.212787E+07
1.209288E+07	1.013250E+05	1.207922E+07	1.202038E+07	1.196679E+07
1.196153E+07	1.194682E+07	1.188378E+07	1.164735E+07	1.093807E+07
8.836503E+06				
1.546750E+07	1.336594E+07	1.265666E+07	1.242023E+07	1.235718E+07
1.234247E+07	1.233722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.195053E+07
1.194528E+07	1.193056E+07	1.186752E+07	1.163109E+07	1.092181E+07
8.820245E+06				
1.545160E+07	1.335003E+07	1.264075E+07	1.240433E+07	1.234128E+07
1.232657E+07	1.232132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.193463E+07
1.192937E+07	1.191466E+07	1.185161E+07	1.161519E+07	1.090591E+07
8.804342E+06				
1.543570E+07	1.333413E+07	1.262485E+07	1.238843E+07	1.232538E+07
1.231067E+07	1.230541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.191872E+07
1.191347E+07	1.189876E+07	1.183571E+07	1.159929E+07	1.089001E+07
8.788441E+06				
1.541199E+07	1.331042E+07	1.260114E+07	1.236472E+07	1.230167E+07
1.228696E+07	1.228170E+07	1.227605E+07	1.227040E+07	1.226914E+07
1.226888E+07	1.226863E+07	1.226737E+07	1.226172E+07	1.225291E+07
1.223820E+07	1.217568E+07	1.211316E+07	1.209424E+07	1.205610E+07
1.202111E+07	1.013250E+05	1.200745E+07	1.194860E+07	1.189502E+07
1.188976E+07	1.187505E+07	1.181200E+07	1.157558E+07	1.086630E+07
8.764732E+06				
1.539460E+07	1.329304E+07	1.258376E+07	1.234733E+07	1.228429E+07
1.226957E+07	1.226432E+07	1.225867E+07	1.225301E+07	1.225175E+07
1.225150E+07	1.225125E+07	1.224999E+07	1.224433E+07	1.223553E+07
1.222082E+07	1.215830E+07	1.209577E+07	1.207686E+07	1.203872E+07
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8.747348E+06				
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1.221341E+07	1.220815E+07	1.220250E+07	1.219685E+07	1.219559E+07
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1.216465E+07	1.210213E+07	1.203961E+07	1.202069E+07	1.198255E+07
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8.691182E+06				
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1.215778E+07	1.215253E+07	1.214688E+07	1.214122E+07	1.213996E+07
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1.210903E+07	1.204651E+07	1.198398E+07	1.196507E+07	1.192693E+07
1.189194E+07	1.013250E+05	1.187828E+07	1.181943E+07	1.176584E+07
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 1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
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31*0.000000E+00
31*0.000000E+00
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31*0.000000E+00
31*0.000000E+00
```

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 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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  1  1  1  1  1
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
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 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 33 17 17 17 17
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 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
 20 20 20 20 20
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 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
 22 22 22 22 22
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 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
   #       NAME
   1       S_HALITE
   2       DRZ_0
   3       TRANS_0
   4       S_MB139
   5       S_ANH_AB
   6       S_MB138
   7       CAVITY_1
   8       CAVITY_2
   9       CAVITY_3
  10       CAVITY_4
  11       IMPERM_Z
  12       CASTILER
  13       WAS_AREA
  14       REPOSIT
  15       DRZ_1
  16       UNNAMED
  17       CULEBRA
  18       TAMARISK
  19       MAGENTA
  20       FORTYNIN
  21       DEWYLAKE
  22       SANTAROS
  23       BACKFILL
  24       EXP_AREA
  25       SHFT_B_1
  26       SHFT_B_2
  27       SHFT_L_1
  28       SHFT_L_2
  29       SHFT_U_1
  30       SHFT_U_2
  31       SHFT_LS1
  32       SHFT_LS2
  33       SHFT_US1
  34       SHFT_US2
  35       PAN_S_1
  36       PAN_S_2
  37       BOREHOLE
```

```
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 5.503000E-01 2.489000E-01 1.025000E-01
 2 5.503000E-01 0.000000E+00 0.000000E+00
 3 5.503000E-01 0.000000E+00 0.000000E+00
 4 6.492000E+00 1.559000E-02 2.049000E-01
 5 6.492000E+00 1.559000E-02 2.049000E-01
 6 6.492000E+00 1.559000E-02 2.049000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 7.082000E+00 3.636000E-01 1.877000E-01
14 7.082000E+00 3.636000E-01 1.877000E-01
15 5.503000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 5.503000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A        PCT_EXP      KRP KPC KTP
 1 2.613450E-01 1.013250E+05 1.000000E+08  1.937000E+05  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
```

```
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 4 1.636950E-02 1.013250E+05 1.000000E+08  1.267651E-03 -3.460000E-01  4  2  0
 5 1.636950E-02 1.013250E+05 1.000000E+08  1.267651E-03 -3.460000E-01  4  2  0
 6 1.636950E-02 1.013250E+05 1.000000E+08  1.267651E-03 -3.460000E-01  4  2  0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
13 3.817800E-01 1.013250E+05 1.000000E+08  8.413720E-01 -3.460000E-01  1  4  0
14 3.817800E-01 1.013250E+05 1.000000E+08  8.413720E-01 -3.460000E-01  1  4  0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  1.748268E+06  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  1.748268E+06  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 1.174897E-21 1.174897E-21 1.174897E-21  2.096000E-03  1.288484E-07
 2 1.000000E-15 1.000000E-15 1.000000E-15  2.096000E-03  3.959559E-07
 3 1.000000E-15 1.000000E-15 1.000000E-15  2.096000E-03  3.959559E-07
 4 1.819702E-19 1.819702E-19 1.819702E-19  1.929000E-02  1.777935E-08
 5 1.819702E-19 1.819702E-19 1.819702E-19  1.929000E-02  1.777935E-08
 6 1.819702E-19 1.819702E-19 1.819702E-19  1.929000E-02  1.777935E-08
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.096000E-03  3.959559E-07
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.698242E-19 1.698242E-19 1.698242E-19  5.000000E-02  2.000000E-08
33 1.698242E-19 1.698242E-19 1.698242E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 3.162278E-12 3.162278E-12 3.162278E-12  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.096000E-03  3.959559E-07
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39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01    1    1    0
 5 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01    1    1    0
 6 2.160000E+06 2.500000E+06 2.929000E-02 5.913467E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0   2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  1.0978E-06   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  4.8920E-04   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  2.6110E-01  0.0000E+00
  2.6110E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.2970E+00  -1.4061E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
```

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 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.    MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V002.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,    TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,    DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1      1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLE OUTPUT
```

```
    8
    1    4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2    1     NAME=GAS PRESSURE
22 12  1
   10    6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18   30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31  140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32   69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34  140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
```

```
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
     3
 MONITOR BLOCKS (I,J,K)
    11    10     1
    17    10     1
    25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.566513E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.566513E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
```

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3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
6.523721E+02
1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
6.536927E+02
1.036419E+02  2.781660E+02  3.370679E+02  3.567019E+02  3.619376E+02  3.631592E+02
3.635956E+02  3.640650E+02  3.645345E+02  3.646392E+02  3.646602E+02  3.646811E+02
3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
3.791631E+02  3.823307E+02  3.852366E+02  3.857602E+02  3.863710E+02  3.912577E+02
3.957080E+02  3.961443E+02  3.973660E+02  4.026017E+02  4.222357E+02  4.811375E+02
6.556616E+02
1.050855E+02  2.796096E+02  3.385115E+02  3.581454E+02  3.633812E+02  3.646028E+02
3.650392E+02  3.655086E+02  3.659781E+02  3.660828E+02  3.661038E+02  3.661247E+02
3.662294E+02  3.666989E+02  3.674301E+02  3.686518E+02  3.738439E+02  3.790360E+02
3.806067E+02  3.837743E+02  3.866802E+02  3.872037E+02  3.878146E+02  3.927012E+02
3.971516E+02  3.975879E+02  3.988096E+02  4.040453E+02  4.236793E+02  4.825811E+02
6.571052E+02
1.097498E+02  2.842739E+02  3.431758E+02  3.628097E+02  3.680454E+02  3.692671E+02
3.697034E+02  3.701729E+02  3.706424E+02  3.707471E+02  3.707680E+02  3.707890E+02
3.708937E+02  3.713632E+02  3.720945E+02  3.733161E+02  3.785082E+02  3.837003E+02
3.852710E+02  3.884386E+02  3.913445E+02  3.918680E+02  3.924789E+02  3.973655E+02
4.018159E+02  4.022522E+02  4.034739E+02  4.087096E+02  4.283435E+02  4.872454E+02
6.617695E+02
1.143691E+02  2.888932E+02  3.477951E+02  3.674290E+02  3.726647E+02  3.738864E+02
3.743227E+02  3.747922E+02  3.752617E+02  3.753664E+02  3.753873E+02  3.754083E+02
3.755130E+02  3.759825E+02  3.767137E+02  3.779354E+02  3.831275E+02  3.883196E+02
3.898903E+02  3.930579E+02  3.959637E+02  3.964873E+02  3.970981E+02  4.019848E+02
4.064352E+02  4.068715E+02  4.080932E+02  4.133289E+02  4.329628E+02  4.918647E+02
6.663888E+02
1.449445E+02  3.194685E+02  3.783704E+02  3.980044E+02  4.032401E+02  4.044618E+02
4.048981E+02  4.053676E+02  4.058370E+02  4.059417E+02  4.059627E+02  4.059836E+02
4.060883E+02  4.065578E+02  4.072891E+02  4.085107E+02  4.137029E+02  4.188949E+02
4.204656E+02  4.236333E+02  4.265391E+02  4.270627E+02  4.276735E+02  4.325602E+02
4.370105E+02  4.374468E+02  4.386685E+02  4.439042E+02  4.635382E+02  5.224401E+02
6.969641E+02
2.546828E+02  4.292068E+02  4.881087E+02  5.077427E+02  5.129784E+02  5.142001E+02
5.146364E+02  5.151058E+02  5.155753E+02  5.156801E+02  5.157010E+02  5.157219E+02
5.158267E+02  5.162961E+02  5.170274E+02  5.182490E+02  5.234412E+02  5.286332E+02
5.302040E+02  5.333716E+02  5.362774E+02  5.368010E+02  5.374118E+02  5.422985E+02
5.467488E+02  5.471852E+02  5.484068E+02  5.536425E+02  5.732765E+02  6.321783E+02
8.067025E+02
4.131886E+02  5.877127E+02  6.466146E+02  6.662485E+02  6.714843E+02  6.727059E+02
6.731423E+02  6.736117E+02  6.740812E+02  6.741859E+02  6.742068E+02  6.742278E+02
6.743325E+02  6.748020E+02  6.755333E+02  6.767549E+02  6.819470E+02  6.871391E+02
6.887098E+02  6.918774E+02  6.947833E+02  6.953069E+02  6.959177E+02  7.008043E+02
7.052547E+02  7.056910E+02  7.069127E+02  7.121484E+02  7.317823E+02  7.906842E+02
9.652083E+02
4.949812E+02  6.695053E+02  7.284072E+02  7.480411E+02  7.532769E+02  7.544985E+02
7.549348E+02  7.554043E+02  7.558738E+02  7.559785E+02  7.559995E+02  7.560204E+02
7.561251E+02  7.565945E+02  7.573259E+02  7.585475E+02  7.637396E+02  7.689317E+02
7.705024E+02  7.736700E+02  7.765759E+02  7.770994E+02  7.777103E+02  7.825969E+02
7.870472E+02  7.874836E+02  7.887053E+02  7.939410E+02  8.135750E+02  8.724768E+02
1.047001E+03
```

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7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
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7.977001E+02  7.977001E+02  7.977001E+02  7.976363E+02  7.977001E+02  7.977001E+02
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7.977001E+02
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8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02
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8.195501E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
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8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
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 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
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 1.563225E+07
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 1.533060E+07
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 1.447944E+07  1.447418E+07  1.446853E+07  1.446288E+07  1.446161E+07
 1.446136E+07  1.446111E+07  1.445985E+07  1.445420E+07  1.444539E+07
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 1.329195E+07  1.322943E+07  1.316691E+07  1.314799E+07  1.310985E+07
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4.582342E+06
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2.296527E+06
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GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
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6.919780E+01	6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00
6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
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0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	6.919780E+01	6.919780E+01	6.919780E+01
6.919780E+01	6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00
6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00	0.000000E+00
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0.000000E+00	0.000000E+00	6.919780E+01	6.919780E+01	6.919780E+01
6.919780E+01	6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00
6.919780E+01	6.919780E+01	6.919780E+01	0.000000E+00	0.000000E+00
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T      1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41    1    5    9    9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-10   1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-12   1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
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 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
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 1  1  1  1  1
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 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
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11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
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 4  4  4  4  4
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  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
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  5  5  5  5  5
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
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 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
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 20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
```

```
22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
  7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 3.736000E+00 3.477000E-01 2.702000E-01
 2 3.736000E+00 0.000000E+00 0.000000E+00
 3 3.736000E+00 0.000000E+00 0.000000E+00
```

```
  4 5.153000E-01 1.923000E-01 2.294000E-01
  5 5.153000E-01 1.923000E-01 2.294000E-01
  6 5.153000E-01 1.923000E-01 2.294000E-01
  7 7.000000E-01 0.000000E+00 0.000000E+00
  8 7.000000E-01 0.000000E+00 0.000000E+00
  9 7.000000E-01 0.000000E+00 0.000000E+00
 10 7.000000E-01 0.000000E+00 0.000000E+00
 11 1.000000E+00 0.000000E+00 0.000000E+00
 12 7.000000E-01 2.000000E-01 2.000000E-01
 13 2.994000E+00 2.173000E-01 2.252000E-01
 14 2.994000E+00 2.173000E-01 2.252000E-01
 15 3.736000E+00 0.000000E+00 0.000000E+00
 16 7.000000E-01 2.000000E-01 2.000000E-01
 17 7.000000E-01 2.000000E-01 2.000000E-01
 18 7.000000E-01 2.000000E-01 2.000000E-01
 19 7.000000E-01 2.000000E-01 2.000000E-01
 20 7.000000E-01 2.000000E-01 2.000000E-01
 21 7.000000E-01 2.000000E-01 2.000000E-01
 22 7.000000E-01 2.000000E-01 2.000000E-01
 23 7.000000E-01 0.000000E+00 0.000000E+00
 24 7.000000E-01 0.000000E+00 0.000000E+00
 25 7.000000E-01 2.000000E-01 2.000000E-01
 26 7.000000E-01 2.000000E-01 2.000000E-01
 27 7.000000E-01 2.000000E-01 2.000000E-01
 28 7.000000E-01 2.000000E-01 2.000000E-01
 29 7.000000E-01 2.000000E-01 2.000000E-01
 30 7.000000E-01 2.000000E-01 2.000000E-01
 31 7.000000E-01 2.000000E-01 2.000000E-01
 32 7.000000E-01 2.000000E-01 2.000000E-01
 33 7.000000E-01 2.000000E-01 2.000000E-01
 34 7.000000E-01 2.000000E-01 2.000000E-01
 35 7.000000E-01 2.000000E-01 2.000000E-01
 36 7.000000E-01 2.000000E-01 2.000000E-01
 37 7.000000E-01 2.000000E-01 0.000000E+00
 38 3.736000E+00 0.000000E+00 0.000000E+00
 39 7.000000E-01 0.000000E+00 0.000000E+00
  # SBMIN        PBMIN        PCMAX         PCT_A         PCT_EXP      KRP KPC KTP
  1 3.650850E-01 1.013250E+05 1.000000E+08  9.479000E+06  0.000000E+00  4   2   0
  2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
  3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
  4 2.019150E-01 1.013250E+05 1.000000E+08  8.912506E-04 -3.460000E-01  4   2   0
  5 2.019150E-01 1.013250E+05 1.000000E+08  8.912506E-04 -3.460000E-01  4   2   0
  6 2.019150E-01 1.013250E+05 1.000000E+08  8.912506E-04 -3.460000E-01  4   2   0
  7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
  8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
  9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 13 2.281650E-01 1.013250E+05 1.000000E+08  1.405038E+00 -3.460000E-01  1   4   0
 14 2.281650E-01 1.013250E+05 1.000000E+08  1.405038E+00 -3.460000E-01  1   4   0
 15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
 32 2.100000E-01 1.013250E+05 1.000000E+08  4.100984E+05  0.000000E+00  4   2   0
 33 2.100000E-01 1.013250E+05 1.000000E+08  4.100984E+05  0.000000E+00  4   2   0
 34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
 35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
 37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
```

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 # PERMX         PERMY         PERMZ         POROSITY      COMPRES
 1 1.288251E-21 1.288251E-21 1.288251E-21  1.876000E-02  1.320650E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  1.876000E-02  4.401693E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  1.876000E-02  4.401693E-08
 4 1.148152E-21 1.148152E-21 1.148152E-21  9.450000E-03  6.875497E-08
 5 1.148152E-21 1.148152E-21 1.148152E-21  9.450000E-03  6.875497E-08
 6 1.148152E-21 1.148152E-21 1.148152E-21  9.450000E-03  6.875497E-08
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  1.876000E-02  4.401693E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.122016E-17 1.122016E-17 1.122016E-17  5.000000E-02  2.000000E-08
33 1.122016E-17 1.122016E-17 1.122016E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 3.548135E-13 3.548135E-13 3.548135E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.876000E-02  4.401693E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
T
NFRAC
3
# DELTA_PI     DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
4 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01    1    1    0
5 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01    1    1    0
6 1.430000E+06 2.500000E+06 1.945000E-02 4.409351E+01    1    1    0
KLINKENBERG EFFECT TO BE USED? True or False
T
BKLINK        EXPKLINK
 9.80000E-01  -3.30000E-01
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01320E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03    1     0    2.5000E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
 1.80000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
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RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND AND BIODEGRADATION (RKBIO)
 5.1802E-06   0.0000E+00   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 4.9840E-04   0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 1.4090E+00  0.0000E+00
 1.4090E+00  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.0360E+00  -1.9279E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V003.INP

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 1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,        MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2      'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2    1    NAME=GAS PRESSURE
22 12  1
   10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
```

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12 26   1    12 27   1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1     3 12   1     3 14   1     3 19   1     3 20   1     3 21   1
 3 22   1     3 23   1     3 24   1     3 25   1     3 26   1     3 27   1
30  6   1    30 12   1    30 14   1    30 19   1    30 20   1    30 21   1
30 22   1    30 23   1    30 24   1    30 25   1    30 26   1    30 27   1
 8  6   1     8 12   1     8 14   1    25  6   1    25 12   1    25 14   1
16  8   1    16  9   1    16 10   1    19  8   1    19  9   1    19 10   1
 8  8   1     8  9   1     8 10   1    15  8   1    15  9   1    15 10   1
22  6   1    22  7   1    22  8   1    22  9   1    22 10   1    22 11   1
22 12   1    22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1    22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1    22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.575040E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
```

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 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.575040E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
 3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
 3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
 3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
 3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
 6.497014E+02
 9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
 3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
 3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
 3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
 3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
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1.039010E+03
WELL DATA
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 31  22   1   T   F   9.000000E+05   0.000000E+00
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  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
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  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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 16  27   1   T   T   1.013250E+05   2.000000E-01
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 22  27   1   T   T   1.013250E+05   2.000000E-01
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 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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1.286997E+07  1.280745E+07  1.274493E+07  1.272602E+07  1.268787E+07
1.265288E+07  1.013250E+05  1.263922E+07  1.258038E+07  1.252679E+07
1.252153E+07  1.250682E+07  1.244378E+07  1.220735E+07  1.149807E+07
9.396503E+06
1.602750E+07  1.392594E+07  1.321666E+07  1.298023E+07  1.291718E+07
1.290247E+07  1.289722E+07  1.013250E+05  1.013250E+05  1.013250E+05
1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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1.250528E+07  1.249056E+07  1.242752E+07  1.219109E+07  1.148181E+07
9.380245E+06
1.601160E+07  1.391003E+07  1.320075E+07  1.296433E+07  1.290128E+07
1.288657E+07  1.288132E+07  1.013250E+05  1.013250E+05  1.013250E+05
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1.248937E+07  1.247466E+07  1.241161E+07  1.217519E+07  1.146591E+07
9.364342E+06
1.599570E+07  1.389413E+07  1.318485E+07  1.294843E+07  1.288538E+07
1.287067E+07  1.286541E+07  1.013250E+05  1.013250E+05  1.013250E+05
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9.348441E+06
1.597199E+07  1.387042E+07  1.316114E+07  1.292472E+07  1.286167E+07
1.284696E+07  1.284170E+07  1.283605E+07  1.283040E+07  1.282914E+07
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1.258111E+07  1.013250E+05  1.256745E+07  1.250860E+07  1.245502E+07
1.244976E+07  1.243505E+07  1.237200E+07  1.213558E+07  1.142630E+07
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1.269971E+07  1.269946E+07  1.269820E+07  1.269254E+07  1.268374E+07
1.266903E+07  1.260651E+07  1.254398E+07  1.252507E+07  1.248693E+07
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9.195558E+06				
1.547463E+07	1.337307E+07	1.266379E+07	1.242736E+07	1.236432E+07
1.234961E+07	1.234435E+07	1.233870E+07	1.233304E+07	1.233178E+07
1.233153E+07	1.233128E+07	1.233002E+07	1.232437E+07	1.231556E+07
1.230085E+07	1.223833E+07	1.217580E+07	1.215689E+07	1.211875E+07
1.208376E+07	1.013250E+05	1.207010E+07	1.201125E+07	1.195766E+07
1.195241E+07	1.193770E+07	1.187465E+07	1.163822E+07	1.092895E+07
8.827379E+06				
1.415320E+07	1.205163E+07	1.134235E+07	1.110593E+07	1.104288E+07
1.102817E+07	1.102292E+07	1.101726E+07	1.101161E+07	1.101035E+07
1.101010E+07	1.100984E+07	1.100858E+07	1.100293E+07	1.099412E+07
1.097941E+07	1.091689E+07	1.085437E+07	1.083546E+07	1.079731E+07
1.076232E+07	1.013250E+05	1.074866E+07	1.068982E+07	1.063623E+07
1.063097E+07	1.061626E+07	1.055322E+07	1.031679E+07	9.607510E+06
7.505944E+06				
1.224452E+07	1.014295E+07	9.433673E+06	9.197247E+06	9.134200E+06
9.119489E+06	9.114235E+06	9.108582E+06	9.102928E+06	9.101667E+06
9.101415E+06	9.101163E+06	9.099902E+06	9.094249E+06	9.085443E+06
9.070732E+06	9.008211E+06	8.945689E+06	8.926775E+06	8.888632E+06
8.853641E+06	1.013250E+05	8.839980E+06	8.781136E+06	8.727546E+06
8.722292E+06	8.707582E+06	8.644535E+06	8.408108E+06	7.698830E+06
5.597264E+06				
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8.134567E+06	8.129314E+06	8.123661E+06	8.118007E+06	8.116746E+06
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8.085811E+06	8.023289E+06	7.960768E+06	7.941853E+06	7.903710E+06
7.868719E+06	1.013250E+05	7.855059E+06	7.796215E+06	7.742625E+06
7.737371E+06	7.722660E+06	7.659613E+06	7.423187E+06	6.713909E+06
4.612342E+06				
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2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
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1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
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9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
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9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
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1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				
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7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	1.013250E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05				
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05

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 GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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  1.000000E+00
  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
  1.000000E+00  1.000000E+00  3.519000E-02  3.519000E-02  3.519000E-02
  3.519000E-02  3.519000E-02  3.519000E-02  3.519000E-02  2.500000E-01
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  0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
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3.519000E-02	3.519000E-02	3.519000E-02	3.519000E-02	2.500000E-01
3.519000E-02	3.519000E-02	3.519000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00				
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	3.519000E-02	3.519000E-02	3.519000E-02
3.519000E-02	3.519000E-02	3.519000E-02	3.519000E-02	2.500000E-01
3.519000E-02	3.519000E-02	3.519000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00				
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1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
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 5  5  5  5  5
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 1  1  1  1  1
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 6  6  6  6  6
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
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 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
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  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
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 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
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11 11 11 11 11
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
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 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
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11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
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 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
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 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 2.077000E-01 5.817000E-01 3.774000E-03
 2 2.077000E-01 0.000000E+00 0.000000E+00
 3 2.077000E-01 0.000000E+00 0.000000E+00
 4 5.793000E-01 3.840000E-01 1.055000E-01
 5 5.793000E-01 3.840000E-01 1.055000E-01
 6 5.793000E-01 3.840000E-01 1.055000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 2.559000E-01 3.249000E-01 3.522000E-01
14 2.559000E-01 3.249000E-01 3.522000E-01
15 2.077000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 2.077000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX          PCT_A        PCT_EXP      KRP KPC KTP
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1	6.107850E-01	1.013250E+05	1.000000E+08	7.050000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
5	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
6	4.032000E-01	1.013250E+05	1.000000E+08	1.506607E-01	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.411450E-01	1.013250E+05	1.000000E+08	9.075865E-01	-3.460000E-01	4	4	0
14	3.411450E-01	1.013250E+05	1.000000E+08	9.075865E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.155281E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.155281E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	4.677352E-22	4.677352E-22	4.677352E-22	9.788000E-03	5.697927E-08
2	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08
4	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10
5	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10
6	3.715350E-20	3.715350E-20	3.715350E-20	2.929000E-02	7.240755E-10
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	9.788000E-03	8.459345E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	5.623413E-19	5.623413E-19	5.623413E-19	5.000000E-02	2.000000E-08
33	5.623413E-19	5.623413E-19	5.623413E-19	5.000000E-02	2.000000E-08
34	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
35	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
36	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08

```
37 2.398834E-13 2.398834E-13 2.398834E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  9.788000E-03  8.459345E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01    1    1    0
 5 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01    1    1    0
 6 2.130000E+06 2.500000E+06 3.929000E-02 8.219534E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1    0   2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00    2.3835E-08   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00    1.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.2770E+00  0.0000E+00
  1.2770E+00  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
```

```
 1.0717E+00  -1.8566E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13         4
2   14         4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V004.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,      MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
```

```
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1    11  1  1    22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1     7 14  1    25  6  1    25 12  1    25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1    10  8  1    11  8  1    12  8  1    13  8  1
14  8  1    8  9  1     9  9  1    10  9  1    11  9  1    12  9  1
13  9  1   14  9  1     8 10  1     9 10  1    10 10  1    11 10  1
12 10  1   13 10  1    14 10  1    16  8  1    17  8  1    18  8  1
16  9  1   17  9  1    18  9  1    16 10  1    17 10  1    18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1    3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1   30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1   30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1    8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1   16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1    8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1   22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1   22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1   22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1   22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1   23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1   23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1   23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1   23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1   11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1   11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1   11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1   11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1   12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1   12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1   12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1   12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1    8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1   14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1   18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1   22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1   22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1   22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1   11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1   11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1   11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1   11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1   11 26  1    11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1    3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1   30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1   30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1    8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1   16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1    8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1   22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1   22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1   22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1   22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1   23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1   23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1   23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1   23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1   11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1   11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1   11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1   11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1   12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1   12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1   12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
```

```
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69    NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.967974E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.967974E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
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9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
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6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
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3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
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3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
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6.571052E+02					
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3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
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6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
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6.663888E+02					
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4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
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4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
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5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
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9.652083E+02					
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7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
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1.047001E+03
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1.031130E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.038910E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
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 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.502225E+07
 1.502225E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07  1.472060E+07
 1.472060E+07
 1.699447E+07  1.489290E+07  1.418362E+07  1.394719E+07  1.388415E+07
 1.386944E+07  1.386418E+07  1.385853E+07  1.385288E+07  1.385161E+07
 1.385136E+07  1.385111E+07  1.384985E+07  1.384420E+07  1.383539E+07
 1.382068E+07  1.375816E+07  1.369564E+07  1.367672E+07  1.363858E+07
 1.360359E+07  1.359728E+07  1.358993E+07  1.353108E+07  1.347749E+07
 1.347224E+07  1.345753E+07  1.339448E+07  1.315806E+07  1.244878E+07
 1.034721E+07
 1.585574E+07  1.375417E+07  1.304489E+07  1.280846E+07  1.274542E+07
 1.273071E+07  1.272545E+07  1.271980E+07  1.271415E+07  1.271289E+07
 1.271263E+07  1.271238E+07  1.271112E+07  1.270547E+07  1.269666E+07
 1.268195E+07  1.261943E+07  1.255691E+07  1.253799E+07  1.249985E+07
 1.246486E+07  1.245855E+07  1.245120E+07  1.239235E+07  1.233876E+07
 1.233351E+07  1.231880E+07  1.225575E+07  1.201933E+07  1.131005E+07
 9.208480E+06
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 1.234542E+07  1.234516E+07  1.234390E+07  1.233825E+07  1.232945E+07
 1.231473E+07  1.225221E+07  1.218969E+07  1.217078E+07  1.213263E+07
 1.209764E+07  1.209134E+07  1.208398E+07  1.202514E+07  1.197155E+07
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 1.189496E+07  1.188025E+07  1.181720E+07  1.158077E+07  1.087150E+07
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 1.226066E+07  1.226040E+07  1.225914E+07  1.225349E+07  1.224468E+07
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 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
 1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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1.000000E+00	2.500000E-01	1.000000E+00	1.000000E+00	1.000000E+00
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1.000000E+00	1.000000E+00	2.045000E-02	2.045000E-02	2.045000E-02
2.045000E-02	2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01
2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
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2.045000E-02	2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01
2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
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2.045000E-02	2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01
2.045000E-02	2.045000E-02	2.045000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
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31*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T      1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41    1    5    9    9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-10   1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
```

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   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
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 5  5  5  5  5
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 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
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 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 6.757000E-01 7.532000E-03 4.025000E-02
```

2	6.757000E-01	0.000000E+00	0.000000E+00
3	6.757000E-01	0.000000E+00	0.000000E+00
4	2.415000E-01	2.669000E-01	1.348000E-01
5	2.415000E-01	2.669000E-01	1.348000E-01
6	2.415000E-01	2.669000E-01	1.348000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	6.680000E-01	3.021000E-01	2.985000E-01
14	6.680000E-01	3.021000E-01	2.985000E-01
15	6.757000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	6.757000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	7.908599E-03	1.013250E+05	1.000000E+08	7.383000E+05	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
5	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
6	2.802450E-01	1.013250E+05	1.000000E+08	6.745288E-04	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.172050E-01	1.013250E+05	1.000000E+08	1.588503E+00	-3.460000E-01	4	4	0
14	3.172050E-01	1.013250E+05	1.000000E+08	1.588503E+00	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	2.462905E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.462905E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

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38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY     COMPRES
 1 5.888443E-24 5.888443E-24 5.888443E-24  2.168000E-02  2.138978E-08
 2 1.000000E-15 1.000000E-15 1.000000E-15  2.168000E-02  3.805478E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  2.168000E-02  3.805478E-08
 4 2.754232E-18 2.754232E-18 2.754232E-18  3.282000E-02  1.264166E-09
 5 2.754232E-18 2.754232E-18 2.754232E-18  3.282000E-02  1.264166E-09
 6 2.754232E-18 2.754232E-18 2.754232E-18  3.282000E-02  1.264166E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.168000E-02  3.805478E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 4.897794E-17 4.897794E-17 4.897794E-17  5.000000E-02  2.000000E-08
33 4.897794E-17 4.897794E-17 4.897794E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 8.317639E-14 8.317639E-14 8.317639E-14  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.168000E-02  3.805478E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF     FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01    1    1    0
 5 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01    1    1    0
 6 1.810000E+06 2.500000E+06 4.282000E-02 7.475042E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0   2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR    VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
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 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  8.6010E-09   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  2.1520E-01  0.0000E+00
  2.1520E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.1814E+00  -1.6372E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
  0.0000E+00  T  F  1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
 1   13          4
 2   14          4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
 WILL RADIOLYSIS BE CALCULATED? T or F
 F
 BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
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BF2_QB0600_TEST7_V005.INP

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 1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1      1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1    4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2    1     NAME=GAS PRESSURE
22 12  1
   10    6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18   30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31  140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
```

```
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
     3
 MONITOR BLOCKS (I,J,K)
    11    10     1
    17    10     1
    25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.516885E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
```

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 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.516885E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
 3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
 3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
 3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
 3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
 6.497014E+02
 9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
 3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
 3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
 3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
 3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
 3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
 3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
 3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
 3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
 6.523721E+02
 1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
 3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
 3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
 3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
 3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
 6.536927E+02
 1.036419E+02  2.781660E+02  3.370679E+02  3.567019E+02  3.619376E+02  3.631592E+02
 3.635956E+02  3.640650E+02  3.645345E+02  3.646392E+02  3.646602E+02  3.646811E+02
 3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
 3.791631E+02  3.823307E+02  3.852366E+02  3.857602E+02  3.863710E+02  3.912577E+02
 3.957080E+02  3.961443E+02  3.973660E+02  4.026017E+02  4.222357E+02  4.811375E+02
```

```
6.556616E+02
1.050855E+02  2.796096E+02  3.385115E+02  3.581454E+02  3.633812E+02  3.646028E+02
3.650392E+02  3.655086E+02  3.659781E+02  3.660828E+02  3.661038E+02  3.661247E+02
3.662294E+02  3.666989E+02  3.674301E+02  3.686518E+02  3.738439E+02  3.790360E+02
3.806067E+02  3.837743E+02  3.866802E+02  3.872037E+02  3.878146E+02  3.927012E+02
3.971516E+02  3.975879E+02  3.988096E+02  4.040453E+02  4.236793E+02  4.825811E+02
6.571052E+02
1.097498E+02  2.842739E+02  3.431758E+02  3.628097E+02  3.680454E+02  3.692671E+02
3.697034E+02  3.701729E+02  3.706424E+02  3.707471E+02  3.707680E+02  3.707890E+02
3.708937E+02  3.713632E+02  3.720945E+02  3.733161E+02  3.785082E+02  3.837003E+02
3.852710E+02  3.884386E+02  3.913445E+02  3.918680E+02  3.924789E+02  3.973655E+02
4.018159E+02  4.022522E+02  4.034739E+02  4.087096E+02  4.283435E+02  4.872454E+02
6.617695E+02
1.143691E+02  2.888932E+02  3.477951E+02  3.674290E+02  3.726647E+02  3.738864E+02
3.743227E+02  3.747922E+02  3.752617E+02  3.753664E+02  3.753873E+02  3.754083E+02
3.755130E+02  3.759825E+02  3.767137E+02  3.779354E+02  3.831275E+02  3.883196E+02
3.898903E+02  3.930579E+02  3.959637E+02  3.964873E+02  3.970981E+02  4.019848E+02
4.064352E+02  4.068715E+02  4.080932E+02  4.133289E+02  4.329628E+02  4.918647E+02
6.663888E+02
1.449445E+02  3.194685E+02  3.783704E+02  3.980044E+02  4.032401E+02  4.044618E+02
4.048981E+02  4.053676E+02  4.058370E+02  4.059417E+02  4.059627E+02  4.059836E+02
4.060883E+02  4.065578E+02  4.072891E+02  4.085107E+02  4.137029E+02  4.188949E+02
4.204656E+02  4.236333E+02  4.265391E+02  4.270627E+02  4.276735E+02  4.325602E+02
4.370105E+02  4.374468E+02  4.386685E+02  4.439042E+02  4.635382E+02  5.224401E+02
6.969641E+02
2.546828E+02  4.292068E+02  4.881087E+02  5.077427E+02  5.129784E+02  5.142001E+02
5.146364E+02  5.151058E+02  5.155753E+02  5.156801E+02  5.157010E+02  5.157219E+02
5.158267E+02  5.162961E+02  5.170274E+02  5.182490E+02  5.234412E+02  5.286332E+02
5.302040E+02  5.333716E+02  5.362774E+02  5.368010E+02  5.374118E+02  5.422985E+02
5.467488E+02  5.471852E+02  5.484068E+02  5.536425E+02  5.732765E+02  6.321783E+02
8.067025E+02
4.131886E+02  5.877127E+02  6.466146E+02  6.662485E+02  6.714843E+02  6.727059E+02
6.731423E+02  6.736117E+02  6.740812E+02  6.741859E+02  6.742068E+02  6.742278E+02
6.743325E+02  6.748020E+02  6.755333E+02  6.767549E+02  6.819470E+02  6.871391E+02
6.887098E+02  6.918774E+02  6.947833E+02  6.953069E+02  6.959177E+02  7.008043E+02
7.052547E+02  7.056910E+02  7.069127E+02  7.121484E+02  7.317823E+02  7.906842E+02
9.652083E+02
4.949812E+02  6.695053E+02  7.284072E+02  7.480411E+02  7.532769E+02  7.544985E+02
7.549348E+02  7.554043E+02  7.558738E+02  7.559785E+02  7.559995E+02  7.560204E+02
7.561251E+02  7.565945E+02  7.573259E+02  7.585475E+02  7.637396E+02  7.689317E+02
7.705024E+02  7.736700E+02  7.765759E+02  7.770994E+02  7.777103E+02  7.825969E+02
7.870472E+02  7.874836E+02  7.887053E+02  7.939410E+02  8.135750E+02  8.724768E+02
1.047001E+03
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
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7.977001E+02
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 1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
 1.039010E+03
WELL DATA
  0
DIRICHLET CONDITIONS
T     35
   1  20    1    T    F    8.520000E+05    0.000000E+00
  31  20    1    T    F    8.520000E+05    0.000000E+00
   1  22    1    T    F    9.000000E+05    0.000000E+00
  31  22    1    T    F    9.000000E+05    0.000000E+00
   1  27    1    T    T    1.013250E+05    2.000000E-01
   2  27    1    T    T    1.013250E+05    2.000000E-01
   3  27    1    T    T    1.013250E+05    2.000000E-01
   4  27    1    T    T    1.013250E+05    2.000000E-01
   5  27    1    T    T    1.013250E+05    2.000000E-01
   6  27    1    T    T    1.013250E+05    2.000000E-01
   7  27    1    T    T    1.013250E+05    2.000000E-01
   8  27    1    T    T    1.013250E+05    2.000000E-01
   9  27    1    T    T    1.013250E+05    2.000000E-01
  10  27    1    T    T    1.013250E+05    2.000000E-01
  11  27    1    T    T    1.013250E+05    2.000000E-01
  12  27    1    T    T    1.013250E+05    2.000000E-01
  13  27    1    T    T    1.013250E+05    2.000000E-01
  14  27    1    T    T    1.013250E+05    2.000000E-01
  15  27    1    T    T    1.013250E+05    2.000000E-01
  16  27    1    T    T    1.013250E+05    2.000000E-01
  17  27    1    T    T    1.013250E+05    2.000000E-01
  18  27    1    T    T    1.013250E+05    2.000000E-01
  19  27    1    T    T    1.013250E+05    2.000000E-01
  20  27    1    T    T    1.013250E+05    2.000000E-01
  21  27    1    T    T    1.013250E+05    2.000000E-01
  22  27    1    T    T    1.013250E+05    2.000000E-01
  23  27    1    T    T    1.013250E+05    2.000000E-01
  24  27    1    T    T    1.013250E+05    2.000000E-01
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  26  27    1    T    T    1.013250E+05    2.000000E-01
  27  27    1    T    T    1.013250E+05    2.000000E-01
  28  27    1    T    T    1.013250E+05    2.000000E-01
  29  27    1    T    T    1.013250E+05    2.000000E-01
  30  27    1    T    T    1.013250E+05    2.000000E-01
  31  27    1    T    T    1.013250E+05    2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  1.583225E+07  1.583225E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
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  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.583225E+07
  1.583225E+07
  1.553060E+07  1.553060E+07  1.553060E+07  1.553060E+07  1.553060E+07
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  1.553060E+07
  1.780447E+07  1.570290E+07  1.499362E+07  1.475719E+07  1.469415E+07
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1.467944E+07	1.467418E+07	1.466853E+07	1.466288E+07	1.466161E+07
1.466136E+07	1.466111E+07	1.465985E+07	1.465420E+07	1.464539E+07
1.463068E+07	1.456816E+07	1.450564E+07	1.448672E+07	1.444858E+07
1.441359E+07	1.440728E+07	1.439993E+07	1.434108E+07	1.428749E+07
1.428224E+07	1.426753E+07	1.420448E+07	1.396806E+07	1.325878E+07
1.115721E+07				
1.666574E+07	1.456417E+07	1.385489E+07	1.361846E+07	1.355542E+07
1.354071E+07	1.353545E+07	1.352980E+07	1.352415E+07	1.352289E+07
1.352263E+07	1.352238E+07	1.352112E+07	1.351547E+07	1.350666E+07
1.349195E+07	1.342943E+07	1.336691E+07	1.334799E+07	1.330985E+07
1.327486E+07	1.326855E+07	1.326120E+07	1.320235E+07	1.314876E+07
1.314351E+07	1.312880E+07	1.306575E+07	1.282933E+07	1.212005E+07
1.001848E+07				
1.629852E+07	1.419695E+07	1.348768E+07	1.325125E+07	1.318820E+07
1.317349E+07	1.316824E+07	1.316258E+07	1.315693E+07	1.315567E+07
1.315542E+07	1.315516E+07	1.315390E+07	1.314825E+07	1.313945E+07
1.312473E+07	1.306221E+07	1.299969E+07	1.298078E+07	1.294263E+07
1.290764E+07	1.290134E+07	1.289398E+07	1.283514E+07	1.278155E+07
1.277629E+07	1.276158E+07	1.269854E+07	1.246211E+07	1.175283E+07
9.651264E+06				
1.622718E+07	1.412562E+07	1.341634E+07	1.317991E+07	1.311687E+07
1.310215E+07	1.309690E+07	1.309125E+07	1.308559E+07	1.308433E+07
1.308408E+07	1.308383E+07	1.308257E+07	1.307691E+07	1.306811E+07
1.305340E+07	1.299088E+07	1.292835E+07	1.290944E+07	1.287130E+07
1.283631E+07	1.013250E+05	1.282265E+07	1.276380E+07	1.271021E+07
1.270496E+07	1.269025E+07	1.262720E+07	1.239077E+07	1.168150E+07
9.579928E+06				
1.621376E+07	1.411219E+07	1.340291E+07	1.316649E+07	1.310344E+07
1.308873E+07	1.308348E+07	1.307782E+07	1.307217E+07	1.307091E+07
1.307066E+07	1.307040E+07	1.306914E+07	1.306349E+07	1.305468E+07
1.303997E+07	1.297745E+07	1.291493E+07	1.289602E+07	1.285787E+07
1.282288E+07	1.013250E+05	1.280922E+07	1.275038E+07	1.269679E+07
1.269153E+07	1.267682E+07	1.261378E+07	1.237735E+07	1.166807E+07
9.566503E+06				
1.619750E+07	1.409594E+07	1.338666E+07	1.315023E+07	1.308718E+07
1.307247E+07	1.306722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.268053E+07
1.267528E+07	1.266056E+07	1.259752E+07	1.236109E+07	1.165181E+07
9.550245E+06				
1.618160E+07	1.408003E+07	1.337075E+07	1.313433E+07	1.307128E+07
1.305657E+07	1.305132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.266463E+07
1.265937E+07	1.264466E+07	1.258161E+07	1.234519E+07	1.163591E+07
9.534342E+06				
1.616570E+07	1.406413E+07	1.335485E+07	1.311843E+07	1.305538E+07
1.304067E+07	1.303541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.264872E+07
1.264347E+07	1.262876E+07	1.256571E+07	1.232929E+07	1.162001E+07
9.518441E+06				
1.614199E+07	1.404042E+07	1.333114E+07	1.309472E+07	1.303167E+07
1.301696E+07	1.301170E+07	1.300605E+07	1.300040E+07	1.299914E+07
1.299888E+07	1.299863E+07	1.299737E+07	1.299172E+07	1.298291E+07
1.296820E+07	1.290568E+07	1.284316E+07	1.282424E+07	1.278610E+07
1.275111E+07	1.013250E+05	1.273745E+07	1.267860E+07	1.262502E+07
1.261976E+07	1.260505E+07	1.254200E+07	1.230558E+07	1.159630E+07
9.494732E+06				
1.612460E+07	1.402304E+07	1.331376E+07	1.307733E+07	1.301429E+07
1.299957E+07	1.299432E+07	1.298867E+07	1.298301E+07	1.298175E+07
1.298150E+07	1.298125E+07	1.297999E+07	1.297433E+07	1.296553E+07
1.295082E+07	1.288830E+07	1.282577E+07	1.280686E+07	1.276872E+07
1.273373E+07	1.013250E+05	1.272007E+07	1.266122E+07	1.260763E+07
1.260238E+07	1.258767E+07	1.252462E+07	1.228819E+07	1.157891E+07
9.477348E+06				
1.606844E+07	1.396687E+07	1.325759E+07	1.302117E+07	1.295812E+07
1.294341E+07	1.293815E+07	1.293250E+07	1.292685E+07	1.292559E+07
1.292533E+07	1.292508E+07	1.292382E+07	1.291817E+07	1.290936E+07
1.289465E+07	1.283213E+07	1.276961E+07	1.275069E+07	1.271255E+07
1.267756E+07	1.013250E+05	1.266390E+07	1.260506E+07	1.255147E+07
1.254621E+07	1.253150E+07	1.246845E+07	1.223203E+07	1.152275E+07
9.421182E+06				

1.601281E+07	1.391125E+07	1.320197E+07	1.296554E+07	1.290250E+07
1.288778E+07	1.288253E+07	1.287688E+07	1.287122E+07	1.286996E+07
1.286971E+07	1.286946E+07	1.286820E+07	1.286254E+07	1.285374E+07
1.283903E+07	1.277651E+07	1.271398E+07	1.269507E+07	1.265693E+07
1.262194E+07	1.013250E+05	1.260828E+07	1.254943E+07	1.249584E+07
1.249059E+07	1.247588E+07	1.241283E+07	1.217640E+07	1.146712E+07
9.365558E+06				
1.564463E+07	1.354307E+07	1.283379E+07	1.259736E+07	1.253432E+07
1.251961E+07	1.251435E+07	1.250870E+07	1.250304E+07	1.250178E+07
1.250153E+07	1.250128E+07	1.250002E+07	1.249437E+07	1.248556E+07
1.247085E+07	1.240833E+07	1.234580E+07	1.232689E+07	1.228875E+07
1.225376E+07	1.013250E+05	1.224010E+07	1.218125E+07	1.212766E+07
1.212241E+07	1.210770E+07	1.204465E+07	1.180822E+07	1.109895E+07
8.997379E+06				
1.432320E+07	1.222163E+07	1.151235E+07	1.127593E+07	1.121288E+07
1.119817E+07	1.119292E+07	1.118726E+07	1.118161E+07	1.118035E+07
1.118010E+07	1.117984E+07	1.117858E+07	1.117293E+07	1.116412E+07
1.114941E+07	1.108689E+07	1.102437E+07	1.100546E+07	1.096731E+07
1.093232E+07	1.013250E+05	1.091866E+07	1.085982E+07	1.080623E+07
1.080097E+07	1.078626E+07	1.072322E+07	1.048679E+07	9.777510E+06
7.675944E+06				
1.241452E+07	1.031295E+07	9.603674E+06	9.367247E+06	9.304200E+06
9.289489E+06	9.284235E+06	9.278582E+06	9.272928E+06	9.271667E+06
9.271415E+06	9.271163E+06	9.269902E+06	9.264249E+06	9.255443E+06
9.240732E+06	9.178211E+06	9.115689E+06	9.096775E+06	9.058632E+06
9.023641E+06	1.013250E+05	9.009980E+06	8.951136E+06	8.897546E+06
8.892292E+06	8.877582E+06	8.814535E+06	8.578108E+06	7.868830E+06
5.767264E+06				
1.142960E+07	9.328031E+06	8.618752E+06	8.382326E+06	8.319278E+06
8.304567E+06	8.299314E+06	8.293661E+06	8.288007E+06	8.286746E+06
8.286493E+06	8.286241E+06	8.284981E+06	8.279328E+06	8.270522E+06
8.255811E+06	8.193289E+06	8.130768E+06	8.111853E+06	8.073710E+06
8.038719E+06	1.013250E+05	8.025059E+06	7.966215E+06	7.912625E+06
7.907371E+06	7.892660E+06	7.829613E+06	7.593187E+06	6.883909E+06
4.782342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	1.013250E+05	7.395352E+05	7.395352E+05	7.395352E+05
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05

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  7.395352E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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  1.013250E+05
 GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
  1.000000E+00  1.000000E+00  3.021000E-02  3.021000E-02  3.021000E-02
  3.021000E-02  3.021000E-02  3.021000E-02  3.021000E-02  2.500000E-01
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0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 8.638966E+01  8.638966E+01  8.638966E+01  0.000000E+00  0.000000E+00
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T      1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41    1    5    9    9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-10   1.0000E-10
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-12   1.0000E-04
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
4
START TIME FOR MAP 1
-1.5779E+08
MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
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  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
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  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
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  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
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  6  6  6  6  6
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 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
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 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
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 1  1  1  1  1
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 6  6  6  6  6
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 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
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22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
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 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI    MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 4.797000E+00 4.325000E-01 3.689000E-01
 2 4.797000E+00 0.000000E+00 0.000000E+00
 3 4.797000E+00 0.000000E+00 0.000000E+00
 4 1.154000E+00 2.892000E-01 3.796000E-02
 5 1.154000E+00 2.892000E-01 3.796000E-02
 6 1.154000E+00 2.892000E-01 3.796000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 4.479000E-01 6.812000E-02 2.419000E-01
14 4.479000E-01 6.812000E-02 2.419000E-01
15 4.797000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
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37	7.000000E-01	2.000000E-01	0.000000E+00
38	4.797000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.541250E-01	1.013250E+05	1.000000E+08	3.461000E+05	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0
5	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0
6	3.036600E-01	1.013250E+05	1.000000E+08	9.225717E-03	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	7.152600E-02	1.013250E+05	1.000000E+08	1.956357E-01	-3.460000E-01	1	4	0
14	7.152600E-02	1.013250E+05	1.000000E+08	1.956357E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	9.618513E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	9.618513E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	3.890453E-21	3.890453E-21	3.890453E-21	5.280000E-03	3.637571E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07
3	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07
4	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08
5	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08
6	7.585761E-18	7.585761E-18	7.585761E-18	5.032000E-03	4.745584E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	5.280000E-03	1.570317E-07
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
29	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
30	1.000000E-12	1.000000E-12	1.000000E-12	2.500000E-01	4.000000E-09
31	1.000000E-12	1.000000E-12	1.000000E-12	5.000000E-02	2.000000E-08
32	9.549916E-19	9.549916E-19	9.549916E-19	5.000000E-02	2.000000E-08

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33 9.549916E-19 9.549916E-19 9.549916E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 4.365162E-12 4.365162E-12 4.365162E-12  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  5.280000E-03  1.570317E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01    1    1    0
 5 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01    1    1    0
 6 1.640000E+06 2.500000E+06 1.503200E-02 1.839285E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00    1.4877E-07   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00    1.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  8.6290E-01  0.0000E+00
  8.6290E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
```

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 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.2163E+00  -1.5673E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13         4
2   14         4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V006.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31    27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
```

```
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
```

```
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
     3
 MONITOR BLOCKS (I,J,K)
    11    10     1
    17    10     1
    25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.833818E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.833818E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
 3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
```

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3.517866E+02 3.522561E+02 3.529873E+02 3.542090E+02 3.594011E+02 3.645932E+02
3.661639E+02 3.693315E+02 3.722373E+02 3.727609E+02 3.733717E+02 3.782584E+02
3.827088E+02 3.831451E+02 3.843668E+02 3.896025E+02 4.092365E+02 4.681383E+02
6.426624E+02
9.656680E+01 2.710909E+02 3.299928E+02 3.496267E+02 3.548625E+02 3.560841E+02
3.565204E+02 3.569899E+02 3.574594E+02 3.575641E+02 3.575851E+02 3.576060E+02
3.577107E+02 3.581802E+02 3.589114E+02 3.601331E+02 3.653252E+02 3.705173E+02
3.720880E+02 3.752556E+02 3.781614E+02 3.786850E+02 3.792958E+02 3.841825E+02
3.886329E+02 3.890692E+02 3.902909E+02 3.955266E+02 4.151606E+02 4.740624E+02
6.485865E+02
9.768167E+01 2.722057E+02 3.311076E+02 3.507415E+02 3.559773E+02 3.571989E+02
3.576353E+02 3.581047E+02 3.585742E+02 3.586789E+02 3.586999E+02 3.587208E+02
3.588255E+02 3.592950E+02 3.600263E+02 3.612480E+02 3.664400E+02 3.716321E+02
3.732029E+02 3.763705E+02 3.792763E+02 3.797998E+02 3.804107E+02 3.852974E+02
3.897477E+02 3.901840E+02 3.914057E+02 3.966414E+02 4.162754E+02 4.751772E+02
6.497014E+02
9.903186E+01 2.735559E+02 3.324578E+02 3.520918E+02 3.573275E+02 3.585491E+02
3.589854E+02 3.594549E+02 3.599244E+02 3.600291E+02 3.600501E+02 3.600710E+02
3.601757E+02 3.606452E+02 3.613765E+02 3.625981E+02 3.677902E+02 3.729823E+02
3.745530E+02 3.777206E+02 3.806265E+02 3.811501E+02 3.817609E+02 3.866476E+02
3.910979E+02 3.915342E+02 3.927559E+02 3.979916E+02 4.176256E+02 4.765274E+02
6.510515E+02
1.003524E+02 2.748765E+02 3.337784E+02 3.534124E+02 3.586481E+02 3.598698E+02
3.603061E+02 3.607755E+02 3.612450E+02 3.613497E+02 3.613707E+02 3.613916E+02
3.614963E+02 3.619658E+02 3.626971E+02 3.639187E+02 3.691108E+02 3.743029E+02
3.758736E+02 3.790413E+02 3.819471E+02 3.824706E+02 3.830815E+02 3.879681E+02
3.924185E+02 3.928548E+02 3.940765E+02 3.993122E+02 4.189462E+02 4.778481E+02
6.523721E+02
1.016731E+02 2.761971E+02 3.350990E+02 3.547329E+02 3.599687E+02 3.611903E+02
3.616266E+02 3.620961E+02 3.625656E+02 3.626703E+02 3.626913E+02 3.627122E+02
3.628169E+02 3.632864E+02 3.640177E+02 3.652393E+02 3.704314E+02 3.756235E+02
3.771942E+02 3.803618E+02 3.832677E+02 3.837913E+02 3.844021E+02 3.892888E+02
3.937391E+02 3.941754E+02 3.953971E+02 4.006328E+02 4.202668E+02 4.791686E+02
6.536927E+02
1.036419E+02 2.781660E+02 3.370679E+02 3.567019E+02 3.619376E+02 3.631592E+02
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3.957080E+02 3.961443E+02 3.973660E+02 4.026017E+02 4.222357E+02 4.811375E+02
6.556616E+02
1.050855E+02 2.796096E+02 3.385115E+02 3.581454E+02 3.633812E+02 3.646028E+02
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3.806067E+02 3.837743E+02 3.866802E+02 3.872037E+02 3.878146E+02 3.927012E+02
3.971516E+02 3.975879E+02 3.988096E+02 4.040453E+02 4.236793E+02 4.825811E+02
6.571052E+02
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6.617695E+02
1.143691E+02 2.888932E+02 3.477951E+02 3.674290E+02 3.726647E+02 3.738864E+02
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6.743325E+02 6.748020E+02 6.755333E+02 6.767549E+02 6.819470E+02 6.871391E+02
6.887098E+02 6.918774E+02 6.947833E+02 6.953069E+02 6.959177E+02 7.008043E+02
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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  9  27   1   T   T   1.013250E+05   2.000000E-01
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 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.544225E+07
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 1.231496E+07  1.230025E+07  1.223720E+07  1.200077E+07  1.129150E+07
 9.189928E+06
 1.582376E+07  1.372219E+07  1.301291E+07  1.277649E+07  1.271344E+07
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 9.176503E+06
 1.580750E+07  1.370594E+07  1.299666E+07  1.276023E+07  1.269718E+07
 1.268247E+07  1.267722E+07  1.013250E+05  1.013250E+05  1.013250E+05
 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.229053E+07
1.228528E+07	1.227056E+07	1.220752E+07	1.197109E+07	1.126181E+07
9.160245E+06				
1.579160E+07	1.369003E+07	1.298075E+07	1.274433E+07	1.268128E+07
1.266657E+07	1.266132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.227463E+07
1.226937E+07	1.225466E+07	1.219161E+07	1.195519E+07	1.124591E+07
9.144342E+06				
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1.265067E+07	1.264541E+07	1.013250E+05	1.013250E+05	1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.225872E+07
1.225347E+07	1.223876E+07	1.217571E+07	1.193929E+07	1.123001E+07
9.128441E+06				
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1.262696E+07	1.262170E+07	1.261605E+07	1.261040E+07	1.260914E+07
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9.104732E+06				
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1.256082E+07	1.249830E+07	1.243577E+07	1.241686E+07	1.237872E+07
1.234373E+07	1.013250E+05	1.233007E+07	1.227122E+07	1.221763E+07
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9.087348E+06				
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9.031182E+06				
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T      1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
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   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00     1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ
```

NBORERESET
0

#	LAMBDA	SOR	SGR
1	4.275000E-01	5.505000E-01	2.855000E-01
2	4.275000E-01	0.000000E+00	0.000000E+00
3	4.275000E-01	0.000000E+00	0.000000E+00
4	1.780000E+00	1.512000E-01	1.826000E-01
5	1.780000E+00	1.512000E-01	1.826000E-01
6	1.780000E+00	1.512000E-01	1.826000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	6.179000E-01	8.712000E-03	3.158000E-01
14	6.179000E-01	8.712000E-03	3.158000E-01
15	4.275000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	4.275000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	5.780249E-01	1.013250E+05	1.000000E+08	1.200000E+07	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
5	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
6	1.587600E-01	1.013250E+05	1.000000E+08	3.655950E-02	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	9.147600E-03	1.013250E+05	1.000000E+08	7.316242E-01	-3.460000E-01	4	4	0
14	9.147600E-03	1.013250E+05	1.000000E+08	7.316242E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	9.773004E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	9.773004E+05	0.000000E+00	4	2	0

```
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  1  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 2.818388E-23 2.818388E-23 2.818388E-23  8.942000E-03  7.403806E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  8.942000E-03  9.262047E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  8.942000E-03  9.262047E-08
 4 8.511386E-20 8.511386E-20 8.511386E-20  3.847000E-02  6.879723E-10
 5 8.511386E-20 8.511386E-20 8.511386E-20  3.847000E-02  6.879723E-10
 6 8.511386E-20 8.511386E-20 8.511386E-20  3.847000E-02  6.879723E-10
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  8.942000E-03  9.262047E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 9.120089E-19 9.120089E-19 9.120089E-19  5.000000E-02  2.000000E-08
33 9.120089E-19 9.120089E-19 9.120089E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.000000E-14 1.000000E-14 1.000000E-14  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  8.942000E-03  9.262047E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02     1    1    0
 5 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02     1    1    0
 6 1.730000E+06 2.500000E+06 4.847000E-02 1.008675E+02     1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS    COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
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NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0000E+00   1.7129E-07   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0000E+00   1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 1.0020E+00  0.0000E+00
 1.0020E+00  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.0144E+00  -1.9713E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13         4
2   14         4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
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F

BF2_QB0600_TEST7_V007.INP

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 1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,   TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1      1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2     0     2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1    17  8  1    11  1  1    22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1     7 12  1     7 14  1    25  6  1    25 12  1    25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1     9  8  1    10  8  1    11  8  1    12  8  1    13  8  1
14  8  1     8  9  1     9  9  1    10  9  1    11  9  1    12  9  1
13  9  1    14  9  1     8 10  1     9 10  1    10 10  1    11 10  1
12 10  1    13 10  1    14 10  1    16  8  1    17  8  1    18  8  1
16  9  1    17  9  1    18  9  1    16 10  1    17 10  1    18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
```

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11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.407879E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
```

```
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.407879E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
 3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
 3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
 3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
 3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
 6.497014E+02
 9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
 3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
 3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
 3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
 3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
 3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
 3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
 3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
 3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
 6.523721E+02
 1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
 3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
 3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
 3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
 3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
 6.536927E+02
 1.036419E+02  2.781660E+02  3.370679E+02  3.567019E+02  3.619376E+02  3.631592E+02
 3.635956E+02  3.640650E+02  3.645345E+02  3.646392E+02  3.646602E+02  3.646811E+02
 3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
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3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02					
9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02	9.270001E+02

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9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.269166E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02
1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
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1.001650E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
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1.031130E+03  1.031130E+03  1.031130E+03  1.031031E+03  1.031130E+03  1.031130E+03
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1.031130E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
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1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T      35
   1  20    1    T    F    8.520000E+05    0.000000E+00
  31  20    1    T    F    8.520000E+05    0.000000E+00
   1  22    1    T    F    9.000000E+05    0.000000E+00
  31  22    1    T    F    9.000000E+05    0.000000E+00
   1  27    1    T    T    1.013250E+05    2.000000E-01
   2  27    1    T    T    1.013250E+05    2.000000E-01
   3  27    1    T    T    1.013250E+05    2.000000E-01
   4  27    1    T    T    1.013250E+05    2.000000E-01
   5  27    1    T    T    1.013250E+05    2.000000E-01
   6  27    1    T    T    1.013250E+05    2.000000E-01
   7  27    1    T    T    1.013250E+05    2.000000E-01
   8  27    1    T    T    1.013250E+05    2.000000E-01
   9  27    1    T    T    1.013250E+05    2.000000E-01
  10  27    1    T    T    1.013250E+05    2.000000E-01
  11  27    1    T    T    1.013250E+05    2.000000E-01
  12  27    1    T    T    1.013250E+05    2.000000E-01
  13  27    1    T    T    1.013250E+05    2.000000E-01
  14  27    1    T    T    1.013250E+05    2.000000E-01
  15  27    1    T    T    1.013250E+05    2.000000E-01
  16  27    1    T    T    1.013250E+05    2.000000E-01
  17  27    1    T    T    1.013250E+05    2.000000E-01
  18  27    1    T    T    1.013250E+05    2.000000E-01
  19  27    1    T    T    1.013250E+05    2.000000E-01
  20  27    1    T    T    1.013250E+05    2.000000E-01
  21  27    1    T    T    1.013250E+05    2.000000E-01
  22  27    1    T    T    1.013250E+05    2.000000E-01
  23  27    1    T    T    1.013250E+05    2.000000E-01
  24  27    1    T    T    1.013250E+05    2.000000E-01
  25  27    1    T    T    1.013250E+05    2.000000E-01
  26  27    1    T    T    1.013250E+05    2.000000E-01
  27  27    1    T    T    1.013250E+05    2.000000E-01
  28  27    1    T    T    1.013250E+05    2.000000E-01
  29  27    1    T    T    1.013250E+05    2.000000E-01
  30  27    1    T    T    1.013250E+05    2.000000E-01
  31  27    1    T    T    1.013250E+05    2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.600225E+07
 1.600225E+07
 1.570060E+07  1.570060E+07  1.570060E+07  1.570060E+07  1.570060E+07
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1.484944E+07	1.484418E+07	1.483853E+07	1.483288E+07	1.483161E+07
1.483136E+07	1.483111E+07	1.482985E+07	1.482420E+07	1.481539E+07
1.480068E+07	1.473816E+07	1.467564E+07	1.465672E+07	1.461858E+07
1.458359E+07	1.457728E+07	1.456993E+07	1.451108E+07	1.445749E+07
1.445224E+07	1.443753E+07	1.437448E+07	1.413806E+07	1.342878E+07
1.132721E+07				
1.683574E+07	1.473417E+07	1.402489E+07	1.378846E+07	1.372542E+07
1.371071E+07	1.370545E+07	1.369980E+07	1.369415E+07	1.369289E+07
1.369263E+07	1.369238E+07	1.369112E+07	1.368547E+07	1.367666E+07
1.366195E+07	1.359943E+07	1.353691E+07	1.351799E+07	1.347985E+07
1.344486E+07	1.343855E+07	1.343120E+07	1.337235E+07	1.331876E+07
1.331351E+07	1.329880E+07	1.323575E+07	1.299933E+07	1.229005E+07
1.018848E+07				
1.646852E+07	1.436695E+07	1.365768E+07	1.342125E+07	1.335820E+07
1.334349E+07	1.333824E+07	1.333258E+07	1.332693E+07	1.332567E+07
1.332542E+07	1.332516E+07	1.332390E+07	1.331825E+07	1.330945E+07
1.329473E+07	1.323221E+07	1.316969E+07	1.315078E+07	1.311263E+07
1.307764E+07	1.307134E+07	1.306398E+07	1.300514E+07	1.295155E+07
1.294629E+07	1.293158E+07	1.286854E+07	1.263211E+07	1.192283E+07
9.821265E+06				
1.639718E+07	1.429562E+07	1.358634E+07	1.334991E+07	1.328687E+07
1.327215E+07	1.326690E+07	1.326125E+07	1.325559E+07	1.325433E+07
1.325408E+07	1.325383E+07	1.325257E+07	1.324691E+07	1.323811E+07
1.322340E+07	1.316088E+07	1.309835E+07	1.307944E+07	1.304130E+07
1.300631E+07	1.013250E+05	1.299265E+07	1.293380E+07	1.288021E+07
1.287496E+07	1.286025E+07	1.279720E+07	1.256077E+07	1.185150E+07
9.749928E+06				
1.638376E+07	1.428219E+07	1.357291E+07	1.333649E+07	1.327344E+07
1.325873E+07	1.325348E+07	1.324782E+07	1.324217E+07	1.324091E+07
1.324066E+07	1.324040E+07	1.323914E+07	1.323349E+07	1.322468E+07
1.320997E+07	1.314745E+07	1.308493E+07	1.306602E+07	1.302787E+07
1.299288E+07	1.013250E+05	1.297922E+07	1.292038E+07	1.286679E+07
1.286153E+07	1.284682E+07	1.278378E+07	1.254735E+07	1.183807E+07
9.736503E+06				
1.636750E+07	1.426594E+07	1.355666E+07	1.332023E+07	1.325718E+07
1.324247E+07	1.323722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.285053E+07
1.284528E+07	1.283056E+07	1.276752E+07	1.253109E+07	1.182181E+07
9.720245E+06				
1.635160E+07	1.425003E+07	1.354075E+07	1.330433E+07	1.324128E+07
1.322657E+07	1.322132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.283463E+07
1.282937E+07	1.281466E+07	1.275161E+07	1.251519E+07	1.180591E+07
9.704342E+06				
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1.321067E+07	1.320541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.281872E+07
1.281347E+07	1.279876E+07	1.273571E+07	1.249929E+07	1.179001E+07
9.688441E+06				
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1.318696E+07	1.318170E+07	1.317605E+07	1.317040E+07	1.316914E+07
1.316888E+07	1.316863E+07	1.316737E+07	1.316172E+07	1.315291E+07
1.313820E+07	1.307568E+07	1.301316E+07	1.299424E+07	1.295610E+07
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1.278976E+07	1.277505E+07	1.271200E+07	1.247558E+07	1.176630E+07
9.664732E+06				
1.629460E+07	1.419304E+07	1.348376E+07	1.324733E+07	1.318429E+07
1.316957E+07	1.316432E+07	1.315867E+07	1.315301E+07	1.315175E+07
1.315150E+07	1.315125E+07	1.314999E+07	1.314433E+07	1.313553E+07
1.312082E+07	1.305830E+07	1.299577E+07	1.297686E+07	1.293872E+07
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9.647348E+06				
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1.311341E+07	1.310815E+07	1.310250E+07	1.309685E+07	1.309559E+07
1.309533E+07	1.309508E+07	1.309382E+07	1.308817E+07	1.307936E+07
1.306465E+07	1.300213E+07	1.293961E+07	1.292069E+07	1.288255E+07
1.284756E+07	1.013250E+05	1.283390E+07	1.277506E+07	1.272147E+07

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 7.395352E+05
 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
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31*0.000000E+00
31*0.000000E+00
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31*0.000000E+00
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 31*0.000000E+00
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 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
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  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
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 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
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 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
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22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
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22 22 22 22 22
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#	NAME
1	S_HALITE
2	DRZ_0
3	TRANS_0
4	S_MB139
5	S_ANH_AB
6	S_MB138
7	CAVITY_1
8	CAVITY_2
9	CAVITY_3
10	CAVITY_4
11	IMPERM_Z
12	CASTILER
13	WAS_AREA
14	REPOSIT
15	DRZ_1
16	UNNAMED
17	CULEBRA
18	TAMARISK
19	MAGENTA
20	FORTYNIN
21	DEWYLAKE
22	SANTAROS
23	BACKFILL
24	EXP_AREA
25	SHFT_B_1
26	SHFT_B_2
27	SHFT_L_1
28	SHFT_L_2
29	SHFT_U_1

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 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 2.832000E-01 3.819000E-01 2.395000E-01
 2 2.832000E-01 0.000000E+00 0.000000E+00
 3 2.832000E-01 0.000000E+00 0.000000E+00
 4 7.425000E+00 5.074000E-02 8.257000E-02
 5 7.425000E+00 5.074000E-02 8.257000E-02
 6 7.425000E+00 5.074000E-02 8.257000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 3.681000E-01 2.927000E-01 1.087000E-01
14 3.681000E-01 2.927000E-01 1.087000E-01
15 2.832000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
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35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 2.832000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A         PCT_EXP      KRP KPC KTP
 1 4.009950E-01 1.013250E+05 1.000000E+08  5.918000E+06  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 5.327700E-02 1.013250E+05 1.000000E+08  2.360479E-03 -3.460000E-01  4   2   0
 5 5.327700E-02 1.013250E+05 1.000000E+08  2.360479E-03 -3.460000E-01  4   2   0
 6 5.327700E-02 1.013250E+05 1.000000E+08  2.360479E-03 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 3.073350E-01 1.013250E+05 1.000000E+08  5.818192E-01 -3.460000E-01  1   4   0
14 3.073350E-01 1.013250E+05 1.000000E+08  5.818192E-01 -3.460000E-01  1   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
32 2.100000E-01 1.013250E+05 1.000000E+08  1.539033E+06  0.000000E+00  4   2   0
33 2.100000E-01 1.013250E+05 1.000000E+08  1.539033E+06  0.000000E+00  4   2   0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 1.318259E-24 1.318259E-24 1.318259E-24  2.256000E-02  8.339604E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
 4 2.041735E-18 2.041735E-18 2.041735E-18  3.968000E-02  1.280173E-09
 5 2.041735E-18 2.041735E-18 2.041735E-18  3.968000E-02  1.280173E-09
 6 2.041735E-18 2.041735E-18 2.041735E-18  3.968000E-02  1.280173E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
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31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
33 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.659588E-13 1.659588E-13 1.659588E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP     IFRX IFRY IFRZ
 4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1    0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00   7.6923E-08   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   1.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.1100E+00  0.0000E+00
  1.1100E+00  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
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 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.3081E+00  -1.3838E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1   F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13         4
2   14         4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V008.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2      'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
```

```
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1    11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
```

```
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.911805E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.911805E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
```

9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02

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9.652083E+02
4.949812E+02  6.695053E+02  7.284072E+02  7.480411E+02  7.532769E+02  7.544985E+02
7.549348E+02  7.554043E+02  7.558738E+02  7.559785E+02  7.559995E+02  7.560204E+02
7.561251E+02  7.565945E+02  7.573259E+02  7.585475E+02  7.637396E+02  7.689317E+02
7.705024E+02  7.736700E+02  7.765759E+02  7.770994E+02  7.777103E+02  7.825969E+02
7.870472E+02  7.874836E+02  7.887053E+02  7.939410E+02  8.135750E+02  8.724768E+02
1.047001E+03
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7.977001E+02
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1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
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  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 1.572225E+07  1.572225E+07  1.270000E+07  1.270000E+07  1.270000E+07
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.572225E+07
 1.572225E+07
 1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07
 1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07
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 1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07
 1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07
 1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07  1.542060E+07
 1.542060E+07
 1.769447E+07  1.559290E+07  1.488362E+07  1.464719E+07  1.458415E+07
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 1.104721E+07
 1.655574E+07  1.445417E+07  1.374489E+07  1.350846E+07  1.344542E+07
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 9.908480E+06
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 1.304542E+07  1.304516E+07  1.304390E+07  1.303825E+07  1.302945E+07
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 1.272631E+07  1.013250E+05  1.271265E+07  1.265380E+07  1.260021E+07
 1.259496E+07  1.258025E+07  1.251720E+07  1.228077E+07  1.157150E+07
 9.469928E+06
 1.610376E+07  1.400219E+07  1.329291E+07  1.305649E+07  1.299344E+07
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8.887379E+06
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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 GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T      1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
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    9     9    5.0000E-01     1     0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41     1     5     9     9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
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 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
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 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
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 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
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 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
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12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
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 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
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PRESDRZ

NBORERESET
0

#	LAMBDA	SOR	SGR
1	5.044000E-01	3.122000E-01	3.253000E-01
2	5.044000E-01	0.000000E+00	0.000000E+00
3	5.044000E-01	0.000000E+00	0.000000E+00
4	3.763000E-01	7.613000E-02	2.845000E-01
5	3.763000E-01	7.613000E-02	2.845000E-01
6	3.763000E-01	7.613000E-02	2.845000E-01
7	7.000000E-01	0.000000E+00	0.000000E+00
8	7.000000E-01	0.000000E+00	0.000000E+00
9	7.000000E-01	0.000000E+00	0.000000E+00
10	7.000000E-01	0.000000E+00	0.000000E+00
11	1.000000E+00	0.000000E+00	0.000000E+00
12	7.000000E-01	2.000000E-01	2.000000E-01
13	5.635000E-01	4.057000E-02	2.434000E-02
14	5.635000E-01	4.057000E-02	2.434000E-02
15	5.044000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	5.044000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	3.278100E-01	1.013250E+05	1.000000E+08	5.348000E+06	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0
5	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0
6	7.993650E-02	1.013250E+05	1.000000E+08	1.520548E-02	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	4.259850E-02	1.013250E+05	1.000000E+08	4.279451E-01	-3.460000E-01	4	4	0
14	4.259850E-02	1.013250E+05	1.000000E+08	4.279451E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0

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32 2.100000E-01 1.013250E+05 1.000000E+08  2.775540E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  2.775540E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  1  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ         POROSITY     COMPRES
 1 1.584896E-21 1.584896E-21 1.584896E-21  5.540000E-03  1.252958E-07
 2 1.000000E-15 1.000000E-15 1.000000E-15  5.540000E-03  1.496503E-07
 3 1.000000E-15 1.000000E-15 1.000000E-15  5.540000E-03  1.496503E-07
 4 2.691537E-19 2.691537E-19 2.691537E-19  1.438000E-02  5.867210E-09
 5 2.691537E-19 2.691537E-19 2.691537E-19  1.438000E-02  5.867210E-09
 6 2.691537E-19 2.691537E-19 2.691537E-19  1.438000E-02  5.867210E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  5.540000E-03  1.496503E-07
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 3.467376E-17 3.467376E-17 3.467376E-17  5.000000E-02  2.000000E-08
33 3.467376E-17 3.467376E-17 3.467376E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.548815E-12 1.548815E-12 1.548815E-12  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  5.540000E-03  1.496503E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF      FRAC_PHI     FRAC_EXP      IFRX IFRY IFRZ
 4 1.260000E+06 2.500000E+06 2.438000E-02 4.233310E+01    1    1    0
 5 1.260000E+06 2.500000E+06 2.438000E-02 4.233310E+01    1    1    0
 6 1.260000E+06 2.500000E+06 2.438000E-02 4.233310E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
```

```
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  1.8407E-08   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.5450E+00  0.0000E+00
  1.5450E+00  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.0924E+00  -1.8152E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
  0.0000E+00  T  F  1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
 1   13          4
 2   14          4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
 WILL RADIOLYSIS BE CALCULATED? T or F
```

```
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V009.INP

```
 1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,   TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1    4     NAME=BRINE PRESSURE
11  8  1   17  8  1    11  1  1    22  6  1
    2    1     NAME=GAS PRESSURE
22 12  1
   10    6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1    25  6  1    25 12  1    25 14  1
   18   30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1    11  8  1    12  8  1    13  8  1
14  8  1    8  9  1    9  9  1    10  9  1    11  9  1    12  9  1
13  9  1   14  9  1    8 10  1     9 10  1    10 10  1    11 10  1
12 10  1   13 10  1   14 10  1    16  8  1    17  8  1    18  8  1
16  9  1   17  9  1   18  9  1    16 10  1    17 10  1    18 10  1
   31  140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1    3 23  1    3 24  1     3 25  1     3 26  1     3 27  1
30  6  1   30 12  1   30 14  1    30 19  1    30 20  1    30 21  1
30 22  1   30 23  1   30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1    8 12  1    8 14  1    25  6  1    25 12  1    25 14  1
16  8  1   16  9  1   16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1    8  9  1    8 10  1    15  8  1    15  9  1    15 10  1
22  6  1   22  7  1   22  8  1    22  9  1    22 10  1    22 11  1
22 12  1   22 13  1   22 14  1    22 15  1    22 16  1    22 17  1
22 18  1   22 19  1   22 20  1    22 21  1    22 22  1    22 23  1
22 24  1   22 25  1   22 26  1    22 27  1    23  6  1    23  7  1
23  8  1   23  9  1   23 10  1    23 11  1    23 12  1    23 13  1
23 14  1   23 15  1   23 16  1    23 17  1    23 18  1    23 19  1
23 20  1   23 21  1   23 22  1    23 23  1    23 24  1    23 25  1
23 26  1   23 27  1   11  1  1    11  2  1    11  3  1    11  4  1
```

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11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.257770E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
```

```
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.257770E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
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 6.485865E+02
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 6.523721E+02
 1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
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 3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
 3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
 6.536927E+02
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3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
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3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
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4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
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4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
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6.969641E+02					
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8.067025E+02					
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6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
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9.652083E+02					
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7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
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7.977001E+02					
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8.195501E+02					
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8.358001E+02					
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8.524501E+02					
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
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 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
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 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  1.532225E+07  1.532225E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.532225E+07
  1.532225E+07
  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07
  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07
  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07  1.502060E+07
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1.502060E+07				
1.729447E+07	1.519290E+07	1.448362E+07	1.424719E+07	1.418415E+07
1.416944E+07	1.416418E+07	1.415853E+07	1.415288E+07	1.415161E+07
1.415136E+07	1.415111E+07	1.414985E+07	1.414420E+07	1.413539E+07
1.412068E+07	1.405816E+07	1.399564E+07	1.397672E+07	1.393858E+07
1.390359E+07	1.389728E+07	1.388993E+07	1.383108E+07	1.377749E+07
1.377224E+07	1.375753E+07	1.369448E+07	1.345806E+07	1.274878E+07
1.064721E+07				
1.615574E+07	1.405417E+07	1.334489E+07	1.310846E+07	1.304542E+07
1.303071E+07	1.302545E+07	1.301980E+07	1.301415E+07	1.301289E+07
1.301263E+07	1.301238E+07	1.301112E+07	1.300547E+07	1.299666E+07
1.298195E+07	1.291943E+07	1.285691E+07	1.283799E+07	1.279985E+07
1.276486E+07	1.275855E+07	1.275120E+07	1.269235E+07	1.263876E+07
1.263351E+07	1.261880E+07	1.255575E+07	1.231933E+07	1.161005E+07
9.508480E+06				
1.578852E+07	1.368695E+07	1.297768E+07	1.274125E+07	1.267820E+07
1.266349E+07	1.265824E+07	1.265258E+07	1.264693E+07	1.264567E+07
1.264542E+07	1.264516E+07	1.264390E+07	1.263825E+07	1.262945E+07
1.261473E+07	1.255221E+07	1.248969E+07	1.247078E+07	1.243263E+07
1.239764E+07	1.239134E+07	1.238398E+07	1.232514E+07	1.227155E+07
1.226629E+07	1.225158E+07	1.218854E+07	1.195211E+07	1.124283E+07
9.141264E+06				
1.571718E+07	1.361562E+07	1.290634E+07	1.266991E+07	1.260687E+07
1.259215E+07	1.258690E+07	1.258125E+07	1.257559E+07	1.257433E+07
1.257408E+07	1.257383E+07	1.257257E+07	1.256691E+07	1.255811E+07
1.254340E+07	1.248088E+07	1.241835E+07	1.239944E+07	1.236130E+07
1.232631E+07	1.013250E+05	1.231265E+07	1.225380E+07	1.220021E+07
1.219496E+07	1.218025E+07	1.211720E+07	1.188077E+07	1.117150E+07
9.069928E+06				
1.570376E+07	1.360219E+07	1.289291E+07	1.265649E+07	1.259344E+07
1.257873E+07	1.257348E+07	1.256782E+07	1.256217E+07	1.256091E+07
1.256066E+07	1.256040E+07	1.255914E+07	1.255349E+07	1.254468E+07
1.252997E+07	1.246745E+07	1.240493E+07	1.238602E+07	1.234787E+07
1.231288E+07	1.013250E+05	1.229922E+07	1.224038E+07	1.218679E+07
1.218153E+07	1.216682E+07	1.210378E+07	1.186735E+07	1.115807E+07
9.056503E+06				
1.568750E+07	1.358594E+07	1.287666E+07	1.264023E+07	1.257718E+07
1.256247E+07	1.255722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.217053E+07
1.216528E+07	1.215056E+07	1.208752E+07	1.185109E+07	1.114181E+07
9.040245E+06				
1.567160E+07	1.357003E+07	1.286075E+07	1.262433E+07	1.256128E+07
1.254657E+07	1.254132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.215463E+07
1.214937E+07	1.213466E+07	1.207161E+07	1.183519E+07	1.112591E+07
9.024342E+06				
1.565570E+07	1.355413E+07	1.284485E+07	1.260843E+07	1.254538E+07
1.253067E+07	1.252541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.213872E+07
1.213347E+07	1.211876E+07	1.205571E+07	1.181929E+07	1.111001E+07
9.008441E+06				
1.563199E+07	1.353042E+07	1.282114E+07	1.258472E+07	1.252167E+07
1.250696E+07	1.250170E+07	1.249605E+07	1.249040E+07	1.248914E+07
1.248888E+07	1.248863E+07	1.248737E+07	1.248172E+07	1.247291E+07
1.245820E+07	1.239568E+07	1.233316E+07	1.231424E+07	1.227610E+07
1.224111E+07	1.013250E+05	1.222745E+07	1.216860E+07	1.211502E+07
1.210976E+07	1.209505E+07	1.203200E+07	1.179558E+07	1.108630E+07
8.984732E+06				
1.561460E+07	1.351304E+07	1.280376E+07	1.256733E+07	1.250429E+07
1.248957E+07	1.248432E+07	1.247867E+07	1.247301E+07	1.247175E+07
1.247150E+07	1.247125E+07	1.246999E+07	1.246433E+07	1.245553E+07
1.244082E+07	1.237830E+07	1.231577E+07	1.229686E+07	1.225872E+07
1.222373E+07	1.013250E+05	1.221007E+07	1.215122E+07	1.209763E+07
1.209238E+07	1.207767E+07	1.201462E+07	1.177819E+07	1.106892E+07
8.967348E+06				
1.555844E+07	1.345687E+07	1.274759E+07	1.251117E+07	1.244812E+07
1.243341E+07	1.242815E+07	1.242250E+07	1.241685E+07	1.241559E+07
1.241533E+07	1.241508E+07	1.241382E+07	1.240817E+07	1.239936E+07

1.238465E+07	1.232213E+07	1.225961E+07	1.224069E+07	1.220255E+07
1.216756E+07	1.013250E+05	1.215390E+07	1.209506E+07	1.204147E+07
1.203621E+07	1.202150E+07	1.195845E+07	1.172203E+07	1.101275E+07
8.911182E+06				
1.550281E+07	1.340125E+07	1.269197E+07	1.245554E+07	1.239250E+07
1.237778E+07	1.237253E+07	1.236688E+07	1.236122E+07	1.235996E+07
1.235971E+07	1.235946E+07	1.235820E+07	1.235254E+07	1.234374E+07
1.232903E+07	1.226651E+07	1.220398E+07	1.218507E+07	1.214693E+07
1.211194E+07	1.013250E+05	1.209828E+07	1.203943E+07	1.198584E+07
1.198059E+07	1.196588E+07	1.190283E+07	1.166640E+07	1.095713E+07
8.855558E+06				
1.513463E+07	1.303307E+07	1.232379E+07	1.208736E+07	1.202432E+07
1.200961E+07	1.200435E+07	1.199870E+07	1.199304E+07	1.199178E+07
1.199153E+07	1.199128E+07	1.199002E+07	1.198437E+07	1.197556E+07
1.196085E+07	1.189833E+07	1.183580E+07	1.181689E+07	1.177875E+07
1.174376E+07	1.013250E+05	1.173010E+07	1.167125E+07	1.161766E+07
1.161241E+07	1.159770E+07	1.153465E+07	1.129822E+07	1.058895E+07
8.487379E+06				
1.381320E+07	1.171163E+07	1.100235E+07	1.076593E+07	1.070288E+07
1.068817E+07	1.068292E+07	1.067726E+07	1.067161E+07	1.067035E+07
1.067010E+07	1.066984E+07	1.066858E+07	1.066293E+07	1.065412E+07
1.063941E+07	1.057689E+07	1.051437E+07	1.049546E+07	1.045731E+07
1.042232E+07	1.013250E+05	1.040866E+07	1.034982E+07	1.029623E+07
1.029097E+07	1.027626E+07	1.021322E+07	9.976788E+06	9.267510E+06
7.165944E+06				
1.190452E+07	9.802952E+06	9.093673E+06	8.857247E+06	8.794200E+06
8.779489E+06	8.774235E+06	8.768582E+06	8.762928E+06	8.761667E+06
8.761415E+06	8.761163E+06	8.759902E+06	8.754249E+06	8.745443E+06
8.730732E+06	8.668211E+06	8.605689E+06	8.586775E+06	8.548632E+06
8.513641E+06	1.013250E+05	8.499980E+06	8.441136E+06	8.387547E+06
8.382292E+06	8.367582E+06	8.304535E+06	8.068108E+06	7.358830E+06
5.257264E+06				
1.091960E+07	8.818031E+06	8.108752E+06	7.872325E+06	7.809278E+06
7.794567E+06	7.789314E+06	7.783661E+06	7.778007E+06	7.776746E+06
7.776493E+06	7.776241E+06	7.774981E+06	7.769328E+06	7.760522E+06
7.745811E+06	7.683289E+06	7.620768E+06	7.601853E+06	7.563710E+06
7.528719E+06	1.013250E+05	7.515059E+06	7.456215E+06	7.402625E+06
7.397371E+06	7.382660E+06	7.319613E+06	7.083187E+06	6.373909E+06
4.272342E+06				
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2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
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2.296527E+06				
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8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
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8.520000E+05				
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1.837738E+06				
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9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
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9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
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1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
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1.481906E+06				
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7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05

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 1.000000E+00
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1.000000E+00	1.000000E+00	4.401000E-02	4.401000E-02	4.401000E-02
4.401000E-02	4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01
4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00				
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	4.401000E-02	4.401000E-02	4.401000E-02
4.401000E-02	4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01
4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00				
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1.000000E+00	1.000000E+00	4.401000E-02	4.401000E-02	4.401000E-02
4.401000E-02	4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01
4.401000E-02	4.401000E-02	4.401000E-02	2.500000E-01	0.000000E+00
0.000000E+00	2.500000E-01	0.000000E+00	0.000000E+00	1.000000E+00
1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00				
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1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
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1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
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1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
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1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00	1.000000E+00
1.000000E+00	2.500000E-01	1.000000E+00	1.000000E+00	1.000000E+00
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  2.000000E-01
 GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
```

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 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
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 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   2.0000E+00   1.0000E-01
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-01   1.0000E-01
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9     9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   10    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-08   1.0000E-08
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-10   1.0000E-02
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
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  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
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 11 11 11 11 11
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 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 33 17 17 17 17
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 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 29 19 19 19 19
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20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
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21 21 21 21 21
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
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19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
 18 18 18 18 18
 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
 19 19 19 19 19
 20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
 20 20 20 20 20
 21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
 21 21 21 21 21
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 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
   8      CAVITY_2
   9      CAVITY_3
  10      CAVITY_4
  11      IMPERM_Z
  12      CASTILER
  13      WAS_AREA
  14      REPOSIT
  15      DRZ_1
  16      UNNAMED
  17      CULEBRA
  18      TAMARISK
  19      MAGENTA
  20      FORTYNIN
  21      DEWYLAKE
  22      SANTAROS
  23      BACKFILL
  24      EXP_AREA
  25      SHFT_B_1
  26      SHFT_B_2
  27      SHFT_L_1
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 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 3.469000E-01 4.105000E-01 1.906000E-01
 2 3.469000E-01 0.000000E+00 0.000000E+00
 3 3.469000E-01 0.000000E+00 0.000000E+00
 4 5.869000E+00 9.309000E-02 2.189000E-03
 5 5.869000E+00 9.309000E-02 2.189000E-03
 6 5.869000E+00 9.309000E-02 2.189000E-03
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 8.711000E-01 3.816000E-01 2.710000E-01
14 8.711000E-01 3.816000E-01 2.710000E-01
15 3.469000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
```

33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	3.469000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.310250E-01	1.013250E+05	1.000000E+08	1.502000E+07	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	9.774449E-02	1.013250E+05	1.000000E+08	1.737800E+00	-3.460000E-01	1	2	0
5	9.774449E-02	1.013250E+05	1.000000E+08	1.737800E+00	-3.460000E-01	1	2	0
6	9.774449E-02	1.013250E+05	1.000000E+08	1.737800E+00	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	4.006800E-01	1.013250E+05	1.000000E+08	2.038816E-01	-3.460000E-01	1	4	0
14	4.006800E-01	1.013250E+05	1.000000E+08	2.038816E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	2.050253E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	2.050253E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	4.073808E-23	4.073808E-23	4.073808E-23	7.299000E-03	2.045375E-08
2	1.000000E-15	1.000000E-15	1.000000E-15	7.299000E-03	1.135255E-07
3	1.000000E-15	1.000000E-15	1.000000E-15	7.299000E-03	1.135255E-07
4	1.479109E-19	1.479109E-19	1.479109E-19	9.170000E-03	1.382837E-09
5	1.479109E-19	1.479109E-19	1.479109E-19	9.170000E-03	1.382837E-09
6	1.479109E-19	1.479109E-19	1.479109E-19	9.170000E-03	1.382837E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	7.299000E-03	1.135255E-07
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
28	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08

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29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.071521E-19 1.071521E-19 1.071521E-19  5.000000E-02  2.000000E-08
33 1.071521E-19 1.071521E-19 1.071521E-19  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 5.248078E-14 5.248078E-14 5.248078E-14  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  7.299000E-03  1.135255E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01     1    1    0
 5 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01     1    1    0
 6 1.800000E+06 2.500000E+06 1.917000E-02 3.079846E+01     1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00    3.6635E-07   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00    1.8129E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.6120E+00  0.0000E+00
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 1.6120E+00  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.0313E+00  -1.9375E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V010.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,      MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
```

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 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8   1   17  8   1    11  1   1    22  6   1
    2     1     NAME=GAS PRESSURE
22 12   1
   10     6     NAME=GAS DENSITY
 7  6   1    7 12   1     7 14   1    25  6   1    25 12   1    25 14   1
   18    30     NAME=GAS SATURATION
 8  8   1    9  8   1    10  8   1    11  8   1    12  8   1    13  8   1
14  8   1    8  9   1     9  9   1    10  9   1    11  9   1    12  9   1
13  9   1   14  9   1     8 10   1     9 10   1    10 10   1    11 10   1
12 10   1   13 10   1    14 10   1    16  8   1    17  8   1    18  8   1
16  9   1   17  9   1    18  9   1    16 10   1    17 10   1    18 10   1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6   1    3 12   1     3 14   1     3 19   1     3 20   1     3 21   1
 3 22   1    3 23   1     3 24   1     3 25   1     3 26   1     3 27   1
30  6   1   30 12   1    30 14   1    30 19   1    30 20   1    30 21   1
30 22   1   30 23   1    30 24   1    30 25   1    30 26   1    30 27   1
 8  6   1    8 12   1     8 14   1    25  6   1    25 12   1    25 14   1
16  8   1   16  9   1    16 10   1    19  8   1    19  9   1    19 10   1
 8  8   1    8  9   1     8 10   1    15  8   1    15  9   1    15 10   1
22  6   1   22  7   1    22  8   1    22  9   1    22 10   1    22 11   1
22 12   1   22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1   22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1   22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1   23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1   23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1   23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1   23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1   11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1   11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1   11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1   11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1   12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1   12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1   12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1   12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1   12 27   1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1    9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1    8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1   14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1   18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1   22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1   22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1   22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1   11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1   11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1   11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1   11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1   11 26   1    11 27   1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1    3 12   1     3 14   1     3 19   1     3 20   1     3 21   1
 3 22   1    3 23   1     3 24   1     3 25   1     3 26   1     3 27   1
30  6   1   30 12   1    30 14   1    30 19   1    30 20   1    30 21   1
30 22   1   30 23   1    30 24   1    30 25   1    30 26   1    30 27   1
 8  6   1    8 12   1     8 14   1    25  6   1    25 12   1    25 14   1
16  8   1   16  9   1    16 10   1    19  8   1    19  9   1    19 10   1
 8  8   1    8  9   1     8 10   1    15  8   1    15  9   1    15 10   1
22  6   1   22  7   1    22  8   1    22  9   1    22 10   1    22 11   1
22 12   1   22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1   22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1   22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1   23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1   23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1   23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
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23 26   1    23 27   1    11   1   1    11   2   1    11   3   1    11   4   1
11   5   1    11   6   1    11   7   1    11   8   1    11   9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12   1   1
12   2   1    12   3   1    12   4   1    12   5   1    12   6   1    12   7   1
12   8   1    12   9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8   8   1     9   8   1    10   8   1    11   8   1    12   8   1
13   8   1    14   8   1    16 11   1    17 11   1    18 11   1    16   8   1
17   8   1    18   8   1    22   6   1    22   7   1    22   8   1    22   9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11   1   1    11   2   1    11   3   1    11   4   1    11   5   1    11   6   1
11   7   1    11   8   1    11   9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.443878E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.443878E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
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3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
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3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
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1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
6.536927E+02
1.036419E+02  2.781660E+02  3.370679E+02  3.567019E+02  3.619376E+02  3.631592E+02
3.635956E+02  3.640650E+02  3.645345E+02  3.646392E+02  3.646602E+02  3.646811E+02
3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
3.791631E+02  3.823307E+02  3.852366E+02  3.857602E+02  3.863710E+02  3.912577E+02
3.957080E+02  3.961443E+02  3.973660E+02  4.026017E+02  4.222357E+02  4.811375E+02
6.556616E+02
1.050855E+02  2.796096E+02  3.385115E+02  3.581454E+02  3.633812E+02  3.646028E+02
3.650392E+02  3.655086E+02  3.659781E+02  3.660828E+02  3.661038E+02  3.661247E+02
3.662294E+02  3.666989E+02  3.674301E+02  3.686518E+02  3.738439E+02  3.790360E+02
3.806067E+02  3.837743E+02  3.866802E+02  3.872037E+02  3.878146E+02  3.927012E+02
3.971516E+02  3.975879E+02  3.988096E+02  4.040453E+02  4.236793E+02  4.825811E+02
6.571052E+02
1.097498E+02  2.842739E+02  3.431758E+02  3.628097E+02  3.680454E+02  3.692671E+02
3.697034E+02  3.701729E+02  3.706424E+02  3.707471E+02  3.707680E+02  3.707890E+02
3.708937E+02  3.713632E+02  3.720945E+02  3.733161E+02  3.785082E+02  3.837003E+02
3.852710E+02  3.884386E+02  3.913445E+02  3.918680E+02  3.924789E+02  3.973655E+02
4.018159E+02  4.022522E+02  4.034739E+02  4.087096E+02  4.283435E+02  4.872454E+02
6.617695E+02
1.143691E+02  2.888932E+02  3.477951E+02  3.674290E+02  3.726647E+02  3.738864E+02
3.743227E+02  3.747922E+02  3.752617E+02  3.753664E+02  3.753873E+02  3.754083E+02
3.755130E+02  3.759825E+02  3.767137E+02  3.779354E+02  3.831275E+02  3.883196E+02
3.898903E+02  3.930579E+02  3.959637E+02  3.964873E+02  3.970981E+02  4.019848E+02
4.064352E+02  4.068715E+02  4.080932E+02  4.133289E+02  4.329628E+02  4.918647E+02
6.663888E+02
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6.969641E+02
2.546828E+02  4.292068E+02  4.881087E+02  5.077427E+02  5.129784E+02  5.142001E+02
5.146364E+02  5.151058E+02  5.155753E+02  5.156801E+02  5.157010E+02  5.157219E+02
5.158267E+02  5.162961E+02  5.170274E+02  5.182490E+02  5.234412E+02  5.286332E+02
5.302040E+02  5.333716E+02  5.362774E+02  5.368010E+02  5.374118E+02  5.422985E+02
5.467488E+02  5.471852E+02  5.484068E+02  5.536425E+02  5.732765E+02  6.321783E+02
8.067025E+02
4.131886E+02  5.877127E+02  6.466146E+02  6.662485E+02  6.714843E+02  6.727059E+02
6.731423E+02  6.736117E+02  6.740812E+02  6.741859E+02  6.742068E+02  6.742278E+02
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6.743325E+02  6.748020E+02  6.755333E+02  6.767549E+02  6.819470E+02  6.871391E+02
6.887098E+02  6.918774E+02  6.947833E+02  6.953069E+02  6.959177E+02  7.008043E+02
7.052547E+02  7.056910E+02  7.069127E+02  7.121484E+02  7.317823E+02  7.906842E+02
9.652083E+02
4.949812E+02  6.695053E+02  7.284072E+02  7.480411E+02  7.532769E+02  7.544985E+02
7.549348E+02  7.554043E+02  7.558738E+02  7.559785E+02  7.559995E+02  7.560204E+02
7.561251E+02  7.565945E+02  7.573259E+02  7.585475E+02  7.637396E+02  7.689317E+02
7.705024E+02  7.736700E+02  7.765759E+02  7.770994E+02  7.777103E+02  7.825969E+02
7.870472E+02  7.874836E+02  7.887053E+02  7.939410E+02  8.135750E+02  8.724768E+02
1.047001E+03
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
7.977001E+02  7.977001E+02  7.977001E+02  7.976363E+02  7.977001E+02  7.977001E+02
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
7.977001E+02
8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02  8.195501E+02
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8.195501E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.357305E+02  8.358001E+02  8.358001E+02
8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02  8.358001E+02
8.358001E+02
8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02
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8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02
8.524501E+02  8.524501E+02  8.524501E+02  8.523779E+02  8.524501E+02  8.524501E+02
8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02  8.524501E+02
8.524501E+02
8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02
8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02
8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02
8.653501E+02  8.653501E+02  8.653501E+02  8.652760E+02  8.653501E+02  8.653501E+02
8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02
8.653501E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
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9.270001E+02  9.270001E+02  9.270001E+02  9.269166E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02
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1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
1.001650E+03  1.001650E+03  1.001650E+03  1.001555E+03  1.001650E+03  1.001650E+03
1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
1.001650E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
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1.031130E+03  1.031130E+03  1.031130E+03  1.031031E+03  1.031130E+03  1.031130E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
1.031130E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
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1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.038910E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20    1    T    F    8.520000E+05    0.000000E+00
 31  20    1    T    F    8.520000E+05    0.000000E+00
  1  22    1    T    F    9.000000E+05    0.000000E+00
 31  22    1    T    F    9.000000E+05    0.000000E+00
  1  27    1    T    T    1.013250E+05    2.000000E-01
  2  27    1    T    T    1.013250E+05    2.000000E-01
  3  27    1    T    T    1.013250E+05    2.000000E-01
  4  27    1    T    T    1.013250E+05    2.000000E-01
```

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  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 1.559225E+07  1.559225E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.559225E+07
 1.559225E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07  1.529060E+07
 1.529060E+07
 1.756447E+07  1.546290E+07  1.475362E+07  1.451719E+07  1.445415E+07
 1.443944E+07  1.443418E+07  1.442853E+07  1.442288E+07  1.442161E+07
 1.442136E+07  1.442111E+07  1.441985E+07  1.441420E+07  1.440539E+07
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 1.417359E+07  1.416728E+07  1.415993E+07  1.410108E+07  1.404749E+07
 1.404224E+07  1.402753E+07  1.396448E+07  1.372806E+07  1.301878E+07
 1.091721E+07
 1.642574E+07  1.432417E+07  1.361489E+07  1.337846E+07  1.331542E+07
 1.330071E+07  1.329545E+07  1.328980E+07  1.328415E+07  1.328289E+07
 1.328263E+07  1.328238E+07  1.328112E+07  1.327547E+07  1.326666E+07
 1.325195E+07  1.318943E+07  1.312691E+07  1.310799E+07  1.306985E+07
 1.303486E+07  1.302855E+07  1.302120E+07  1.296235E+07  1.290876E+07
 1.290351E+07  1.288880E+07  1.282575E+07  1.258933E+07  1.188005E+07
 9.778480E+06
 1.605852E+07  1.395695E+07  1.324768E+07  1.301125E+07  1.294820E+07
 1.293349E+07  1.292824E+07  1.292258E+07  1.291693E+07  1.291567E+07
 1.291542E+07  1.291516E+07  1.291390E+07  1.290825E+07  1.289945E+07
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 1.253629E+07  1.252158E+07  1.245854E+07  1.222211E+07  1.151283E+07
 9.411264E+06
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 1.284408E+07  1.284383E+07  1.284257E+07  1.283691E+07  1.282811E+07
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 1.259631E+07  1.013250E+05  1.258265E+07  1.252380E+07  1.247021E+07
 1.246496E+07  1.245025E+07  1.238720E+07  1.215077E+07  1.144150E+07
 9.339928E+06
 1.597376E+07  1.387219E+07  1.316291E+07  1.292649E+07  1.286344E+07
 1.284873E+07  1.284348E+07  1.283782E+07  1.283217E+07  1.283091E+07
 1.283066E+07  1.283040E+07  1.282914E+07  1.282349E+07  1.281468E+07
 1.279997E+07  1.273745E+07  1.267493E+07  1.265602E+07  1.261787E+07
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9.326503E+06
1.595750E+07  1.385594E+07  1.314666E+07  1.291023E+07  1.284718E+07
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1.272820E+07  1.266568E+07  1.260316E+07  1.258424E+07  1.254610E+07
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8.015811E+06  7.953289E+06  7.890768E+06  7.871853E+06  7.833710E+06
7.798719E+06  1.013250E+05  7.785059E+06  7.726215E+06  7.672625E+06
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 8.520000E+05
 1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06  1.013250E+05  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06  1.837738E+06
 1.837738E+06
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 9.000000E+05  1.013250E+05  9.000000E+05  9.000000E+05  9.000000E+05
 9.000000E+05  9.000000E+05  9.000000E+05  9.000000E+05  9.000000E+05
 9.000000E+05
 1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06  1.013250E+05  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06  1.481906E+06
 1.481906E+06
 7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
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 7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
 7.395352E+05  1.013250E+05  7.395352E+05  7.395352E+05  7.395352E+05
 7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
 7.395352E+05
 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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 1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
 1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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 1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
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 1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
 1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00
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1.000000E+00  1.000000E+00  6.088000E-03  6.088000E-03  6.088000E-03
6.088000E-03  6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01
6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  6.088000E-03  6.088000E-03  6.088000E-03
6.088000E-03  6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01
6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00
1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00  1.000000E+00
1.000000E+00  1.000000E+00  6.088000E-03  6.088000E-03  6.088000E-03
6.088000E-03  6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01
6.088000E-03  6.088000E-03  6.088000E-03  2.500000E-01  0.000000E+00
0.000000E+00  2.500000E-01  0.000000E+00  0.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
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  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
  2.000000E-01
 GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
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    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
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11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
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 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
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19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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21 21 21 21 21
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
```

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 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA        SOR           SGR
 1 1.634000E+00 2.933000E-01 3.551000E-01
 2 1.634000E+00 0.000000E+00 0.000000E+00
 3 1.634000E+00 0.000000E+00 0.000000E+00
 4 3.294000E-01 1.601000E-01 1.998000E-01
 5 3.294000E-01 1.601000E-01 1.998000E-01
 6 3.294000E-01 1.601000E-01 1.998000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 7.849000E+00 1.338000E-01 1.748000E-01
14 7.849000E+00 1.338000E-01 1.748000E-01
15 1.634000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 1.634000E+00 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN         PBMIN         PCMAX          PCT_A         PCT_EXP      KRP KPC KTP
 1 3.079650E-01 1.013250E+05 1.000000E+08  2.792000E+07  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 1.681050E-01 1.013250E+05 1.000000E+08  2.494594E-02 -3.460000E-01  4   2   0
 5 1.681050E-01 1.013250E+05 1.000000E+08  2.494594E-02 -3.460000E-01  4   2   0
 6 1.681050E-01 1.013250E+05 1.000000E+08  2.494594E-02 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 1.404900E-01 1.013250E+05 1.000000E+08  6.838928E-01 -3.460000E-01  4   4   0
14 1.404900E-01 1.013250E+05 1.000000E+08  6.838928E-01 -3.460000E-01  4   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
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30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  6.305619E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  6.305619E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY     COMPRES
 1 2.754232E-21 2.754232E-21 2.754232E-21  2.710000E-02  1.357828E-10
 2 1.000000E-15 1.000000E-15 1.000000E-15  2.710000E-02  3.039382E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  2.710000E-02  3.039382E-08
 4 2.630268E-17 2.630268E-17 2.630268E-17  4.456000E-03  9.983455E-08
 5 2.630268E-17 2.630268E-17 2.630268E-17  4.456000E-03  9.983455E-08
 6 2.630268E-17 2.630268E-17 2.630268E-17  4.456000E-03  9.983455E-08
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.710000E-02  3.039382E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 3.235938E-18 3.235938E-18 3.235938E-18  5.000000E-02  2.000000E-08
33 3.235938E-18 3.235938E-18 3.235938E-18  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.000000E-13 1.000000E-13 1.000000E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.710000E-02  3.039382E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF     FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01    1    1    0
 5 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01    1    1    0
 6 1.270000E+06 2.500000E+06 1.445600E-02 1.662139E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK         EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT   IDGAS    COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0        2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR    VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
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GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 8.0358E-10   0.0000E+00   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0000E+00   0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 1.2300E+00  0.0000E+00
 1.2300E+00  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.1864E+00  -1.6271E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13        4
2   14        4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
```

```
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V011.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2    'SI'    'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLE OUTPUT
   8
   1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
   2    1    NAME=GAS PRESSURE
22 12  1
  10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
  18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
  31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
```

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23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.715064E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
```

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8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
4.330000E+01  1.566000E+01  1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.715064E-01  4.800000E+00
2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
5.176014E+02
6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
6.523721E+02
1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
```

6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
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8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
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8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
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8.524501E+02					
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8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02

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8.653501E+02
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1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  1.515225E+07  1.515225E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.515225E+07
  1.515225E+07
  1.485060E+07  1.485060E+07  1.485060E+07  1.485060E+07  1.485060E+07
  1.485060E+07  1.485060E+07  1.485060E+07  1.485060E+07  1.485060E+07
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1.485060E+07
1.712447E+07  1.502290E+07  1.431362E+07  1.407719E+07  1.401415E+07
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1.047721E+07
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8.971264E+06
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1.237657E+07  1.237132E+07  1.013250E+05  1.013250E+05  1.013250E+05
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8.854342E+06
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1.236067E+07  1.235541E+07  1.013250E+05  1.013250E+05  1.013250E+05
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1.230150E+07  1.230125E+07  1.229999E+07  1.229433E+07  1.228553E+07
1.227082E+07  1.220830E+07  1.214577E+07  1.212686E+07  1.208872E+07
1.205373E+07  1.013250E+05  1.204007E+07  1.198122E+07  1.192763E+07
1.192238E+07  1.190767E+07  1.184462E+07  1.160819E+07  1.089892E+07
8.797348E+06
1.538844E+07  1.328687E+07  1.257759E+07  1.234117E+07  1.227812E+07
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1.226341E+07	1.225815E+07	1.225250E+07	1.224685E+07	1.224559E+07
1.224533E+07	1.224508E+07	1.224382E+07	1.223817E+07	1.222936E+07
1.221465E+07	1.215213E+07	1.208961E+07	1.207069E+07	1.203255E+07
1.199756E+07	1.013250E+05	1.198390E+07	1.192506E+07	1.187147E+07
1.186621E+07	1.185150E+07	1.178845E+07	1.155203E+07	1.084275E+07
8.741182E+06				
1.533281E+07	1.323125E+07	1.252197E+07	1.228554E+07	1.222250E+07
1.220778E+07	1.220253E+07	1.219688E+07	1.219122E+07	1.218996E+07
1.218971E+07	1.218946E+07	1.218820E+07	1.218254E+07	1.217374E+07
1.215903E+07	1.209651E+07	1.203398E+07	1.201507E+07	1.197693E+07
1.194194E+07	1.013250E+05	1.192828E+07	1.186943E+07	1.181584E+07
1.181059E+07	1.179588E+07	1.173283E+07	1.149640E+07	1.078713E+07
8.685558E+06				
1.496463E+07	1.286307E+07	1.215379E+07	1.191736E+07	1.185432E+07
1.183961E+07	1.183435E+07	1.182870E+07	1.182304E+07	1.182178E+07
1.182153E+07	1.182128E+07	1.182002E+07	1.181437E+07	1.180556E+07
1.179085E+07	1.172833E+07	1.166580E+07	1.164689E+07	1.160875E+07
1.157376E+07	1.013250E+05	1.156010E+07	1.150125E+07	1.144766E+07
1.144241E+07	1.142770E+07	1.136465E+07	1.112822E+07	1.041895E+07
8.317379E+06				
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1.051817E+07	1.051292E+07	1.050726E+07	1.050161E+07	1.050035E+07
1.050010E+07	1.049984E+07	1.049858E+07	1.049293E+07	1.048412E+07
1.046941E+07	1.040689E+07	1.034437E+07	1.032546E+07	1.028731E+07
1.025232E+07	1.013250E+05	1.023866E+07	1.017982E+07	1.012623E+07
1.012097E+07	1.010626E+07	1.004322E+07	9.806788E+06	9.097510E+06
6.995944E+06				
1.173452E+07	9.632952E+06	8.923673E+06	8.687247E+06	8.624200E+06
8.609489E+06	8.604235E+06	8.598582E+06	8.592928E+06	8.591667E+06
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8.560732E+06	8.498211E+06	8.435689E+06	8.416775E+06	8.378632E+06
8.343641E+06	1.013250E+05	8.329980E+06	8.271136E+06	8.217547E+06
8.212292E+06	8.197582E+06	8.134535E+06	7.898108E+06	7.188830E+06
5.087264E+06				
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7.624567E+06	7.619314E+06	7.613661E+06	7.608007E+06	7.606746E+06
7.606493E+06	7.606241E+06	7.604981E+06	7.599328E+06	7.590522E+06
7.575811E+06	7.513289E+06	7.450768E+06	7.431853E+06	7.393710E+06
7.358719E+06	1.013250E+05	7.345059E+06	7.286215E+06	7.232625E+06
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4.102342E+06				
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2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
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1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
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9.000000E+05				
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1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
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1.481906E+06				

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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
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 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
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 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
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  5  5  5  5  5
  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
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 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
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 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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 22 22 22 22 22
  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
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 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #      NAME
  1      S_HALITE
  2      DRZ_0
  3      TRANS_0
  4      S_MB139
  5      S_ANH_AB
  6      S_MB138
  7      CAVITY_1
  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
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 26     SHFT_B_2
 27     SHFT_L_1
 28     SHFT_L_2
 29     SHFT_U_1
 30     SHFT_U_2
 31     SHFT_LS1
 32     SHFT_LS2
 33     SHFT_US1
 34     SHFT_US2
 35     PAN_S_1
 36     PAN_S_2
 37     BOREHOLE
 38     TRANS_1
 39     CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA        SOR           SGR
 1 2.635000E+00 1.620000E-01 2.081000E-01
 2 2.635000E+00 0.000000E+00 0.000000E+00
 3 2.635000E+00 0.000000E+00 0.000000E+00
 4 8.812000E+00 1.971000E-01 1.738000E-01
 5 8.812000E+00 1.971000E-01 1.738000E-01
 6 8.812000E+00 1.971000E-01 1.738000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 3.094000E-01 9.721000E-02 3.312000E-01
14 3.094000E-01 9.721000E-02 3.312000E-01
15 2.635000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
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31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 2.635000E+00 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A         PCT_EXP      KRP KPC KTP
 1 1.701000E-01 1.013250E+05 1.000000E+08  1.882000E+07  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 2.069550E-01 1.013250E+05 1.000000E+08  3.206266E-03 -3.460000E-01  4   2   0
 5 2.069550E-01 1.013250E+05 1.000000E+08  3.206266E-03 -3.460000E-01  4   2   0
 6 2.069550E-01 1.013250E+05 1.000000E+08  3.206266E-03 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 1.020705E-01 1.013250E+05 1.000000E+08  5.467491E-01 -3.460000E-01  4   4   0
14 1.020705E-01 1.013250E+05 1.000000E+08  5.467491E-01 -3.460000E-01  4   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
32 2.100000E-01 1.013250E+05 1.000000E+08  7.573691E+05  0.000000E+00  4   2   0
33 2.100000E-01 1.013250E+05 1.000000E+08  7.573691E+05  0.000000E+00  4   2   0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 2.238723E-21 2.238723E-21 2.238723E-21  3.465000E-03  1.772252E-08
 2 1.000000E-15 1.000000E-15 1.000000E-15  3.465000E-03  2.394174E-07
 3 1.000000E-15 1.000000E-15 1.000000E-15  3.465000E-03  2.394174E-07
 4 3.890453E-16 3.890453E-16 3.890453E-16  3.192000E-02  3.886298E-10
 5 3.890453E-16 3.890453E-16 3.890453E-16  3.192000E-02  3.886298E-10
 6 3.890453E-16 3.890453E-16 3.890453E-16  3.192000E-02  3.886298E-10
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  3.465000E-03  2.394174E-07
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
```

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27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.905464E-18 1.905464E-18 1.905464E-18  5.000000E-02  2.000000E-08
33 1.905464E-18 1.905464E-18 1.905464E-18  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.412536E-13 1.412536E-13 1.412536E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  3.465000E-03  2.394174E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01    1    1    0
 5 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01    1    1    0
 6 2.390000E+06 2.500000E+06 4.192000E-02 5.434274E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  5.6569E-06   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  4.9875E-04   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
```

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RATE COEFFICIENTS: RXH2S AND RXCO2
 6.7970E-01  0.0000E+00
 6.7970E-01  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.0604E+00  -1.8792E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V012.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2      'SI'      'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
```

```
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
```

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 23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
 23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
 23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
 11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
 11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
 11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
 11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
 12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
 12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
 12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
 12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
 12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
  8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
 14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
 13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
 17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
 22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
 22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
 22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
 11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
 11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
 11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
 11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
 11 25   1    11 26   1    11 27   1
  MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
  T
  NUMBER OF MONITOR BLOCKS
     3
  MONITOR BLOCKS (I,J,K)
    11    10     1
    17    10     1
    25    12     1
  GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1     2     1     7
  GRID DATA CARDS: GRID BLOCK DX'S
  1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02
4.000000E+01
  1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.996333E-01
2.000000E+00
  1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02
1.000000E+02
  8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01
5.000000E+02
  1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03
5.000000E+03
  1.500000E+04
  GRID DATA CARDS: GRID BLOCK DY'S
  2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01
8.500000E-01
  1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00
2.700000E-01
  9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02
5.080000E+00
  3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01
1.060000E+02
  4.330000E+01  1.566000E+01  1.000000E-01
  GRID DATA CARDS: GRID BLOCK DZ'S
  6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03
1.834300E+03
  1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.996333E-01
4.800000E+00
  2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02
1.416000E+02
  1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01
5.310000E+01
  1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03
2.172690E+04
  6.172690E+04
  GRID BLOCK ELEVATIONS
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 -3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02
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   31  22   1   T   F   9.000000E+05   0.000000E+00
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    3  27   1   T   T   1.013250E+05   2.000000E-01
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 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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  1.526225E+07
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  1.496060E+07
  1.723447E+07  1.513290E+07  1.442362E+07  1.418719E+07  1.412415E+07
  1.410944E+07  1.410418E+07  1.409853E+07  1.409288E+07  1.409161E+07
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  1.406068E+07  1.399816E+07  1.393564E+07  1.391672E+07  1.387858E+07
  1.384359E+07  1.383728E+07  1.382993E+07  1.377108E+07  1.371749E+07
  1.371224E+07  1.369753E+07  1.363448E+07  1.339806E+07  1.268878E+07
  1.058721E+07
  1.609574E+07  1.399417E+07  1.328489E+07  1.304846E+07  1.298542E+07
  1.297071E+07  1.296545E+07  1.295980E+07  1.295415E+07  1.295289E+07
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  1.292195E+07  1.285943E+07  1.279691E+07  1.277799E+07  1.273985E+07
  1.270486E+07  1.269855E+07  1.269120E+07  1.263235E+07  1.257876E+07
  1.257351E+07  1.255880E+07  1.249575E+07  1.225933E+07  1.155005E+07
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  1.233764E+07  1.233134E+07  1.232398E+07  1.226514E+07  1.221155E+07
  1.220629E+07  1.219158E+07  1.212854E+07  1.189211E+07  1.118283E+07
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  1.226631E+07  1.013250E+05  1.225265E+07  1.219380E+07  1.214021E+07
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  9.009928E+06
  1.564376E+07  1.354219E+07  1.283291E+07  1.259649E+07  1.253344E+07
  1.251873E+07  1.251348E+07  1.250782E+07  1.250217E+07  1.250091E+07
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  1.225288E+07  1.013250E+05  1.223922E+07  1.218038E+07  1.212679E+07
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  8.996503E+06
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1.561160E+07  1.351003E+07  1.280075E+07  1.256433E+07  1.250128E+07
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 1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
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31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T     1.0000E+07 F
```

```
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9     9   5.0000E-01    1     0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41     1     5     9     9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
```

```
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
 16 16 16 16 16
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 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
 20 20 20 20 20
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 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
 22 22 22 22 22
  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
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 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 34 17 17 17 17
 17 17 17 17 17
 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 30 18 18 18 18
 18 18 18 18 18
 19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 30 19 19 19 19
 19 19 19 19 19
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20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #     NAME
  1     S_HALITE
  2     DRZ_0
  3     TRANS_0
  4     S_MB139
  5     S_ANH_AB
  6     S_MB138
  7     CAVITY_1
  8     CAVITY_2
  9     CAVITY_3
 10     CAVITY_4
 11     IMPERM_Z
 12     CASTILER
 13     WAS_AREA
 14     REPOSIT
 15     DRZ_1
 16     UNNAMED
 17     CULEBRA
 18     TAMARISK
 19     MAGENTA
 20     FORTYNIN
 21     DEWYLAKE
 22     SANTAROS
 23     BACKFILL
 24     EXP_AREA
 25     SHFT_B_1
 26     SHFT_B_2
 27     SHFT_L_1
 28     SHFT_L_2
 29     SHFT_U_1
 30     SHFT_U_2
 31     SHFT_LS1
 32     SHFT_LS2
 33     SHFT_US1
 34     SHFT_US2
 35     PAN_S_1
 36     PAN_S_2
 37     BOREHOLE
 38     TRANS_1
 39     CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
```

```
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 6.297000E+00 5.265000E-01 1.272000E-01
 2 6.297000E+00 0.000000E+00 0.000000E+00
 3 6.297000E+00 0.000000E+00 0.000000E+00
 4 3.342000E+00 9.666000E-02 2.598000E-01
 5 3.342000E+00 9.666000E-02 2.598000E-01
 6 3.342000E+00 9.666000E-02 2.598000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 2.260000E-01 1.006000E-01 4.594000E-02
14 2.260000E-01 1.006000E-01 4.594000E-02
15 6.297000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 6.297000E+00 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A         PCT_EXP      KRP KPC KTP
 1 5.528250E-01 1.013250E+05 1.000000E+08  5.042000E+07  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 1.014930E-01 1.013250E+05 1.000000E+08  1.694338E-03 -3.460000E-01  4   2   0
 5 1.014930E-01 1.013250E+05 1.000000E+08  1.694338E-03 -3.460000E-01  4   2   0
 6 1.014930E-01 1.013250E+05 1.000000E+08  1.694338E-03 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 1.056300E-01 1.013250E+05 1.000000E+08  1.496194E+00 -3.460000E-01  4   4   0
14 1.056300E-01 1.013250E+05 1.000000E+08  1.496194E+00 -3.460000E-01  4   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
```

```
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  4.584878E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  4.584878E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ         POROSITY      COMPRES
 1 2.884025E-24 2.884025E-24 2.884025E-24  1.690000E-02  2.134654E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  1.690000E-02  4.888892E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  1.690000E-02  4.888892E-08
 4 8.709646E-20 8.709646E-20 8.709646E-20  7.084000E-02  1.612232E-09
 5 8.709646E-20 8.709646E-20 8.709646E-20  7.084000E-02  1.612232E-09
 6 8.709646E-20 8.709646E-20 8.709646E-20  7.084000E-02  1.612232E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  1.690000E-02  4.888892E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 8.128303E-18 8.128303E-18 8.128303E-18  5.000000E-02  2.000000E-08
33 8.128303E-18 8.128303E-18 8.128303E-18  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 7.762477E-13 7.762477E-13 7.762477E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.690000E-02  4.888892E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02    1    1    0
 5 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02    1    1    0
 6 2.380000E+06 2.500000E+06 8.084000E-02 1.806710E+02    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
```

```
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00   1.9537E-07   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   1.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  8.2460E-01  0.0000E+00
  8.2460E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.2496E+00  -1.5009E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
  0.0000E+00  T  F  1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
 1   13         4
 2   14         4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
```

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WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V013.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2     0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLE OUTPUT
   8
   1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
   2    1    NAME=GAS PRESSURE
22 12  1
  10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
  18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
  31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
```

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23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32   69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34  140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   35   69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.363231E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
```

```
1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
4.330000E+01  1.566000E+01  1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.363231E-01  4.800000E+00
2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
5.176014E+02
6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
6.523721E+02
1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
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3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
6.536927E+02
```

1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02					
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02	8.653501E+02
8.653501E+02	8.653501E+02	8.653501E+02	8.652760E+02	8.653501E+02	8.653501E+02

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8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02  8.653501E+02
8.653501E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
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9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02  9.270001E+02
9.270001E+02
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1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
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1.001650E+03  1.001650E+03  1.001650E+03  1.001555E+03  1.001650E+03  1.001650E+03
1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03  1.001650E+03
1.001650E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
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1.031130E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
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1.039010E+03  1.039010E+03  1.039010E+03  1.038910E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  1.519225E+07  1.519225E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.519225E+07
  1.519225E+07
  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07
  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07
  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07
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1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07  1.489060E+07
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1.489060E+07
1.716447E+07  1.506290E+07  1.435362E+07  1.411719E+07  1.405415E+07
1.403944E+07  1.403418E+07  1.402853E+07  1.402288E+07  1.402161E+07
1.402136E+07  1.402111E+07  1.401985E+07  1.401420E+07  1.400539E+07
1.399068E+07  1.392816E+07  1.386564E+07  1.384672E+07  1.380858E+07
1.377359E+07  1.376728E+07  1.375993E+07  1.370108E+07  1.364749E+07
1.364224E+07  1.362753E+07  1.356448E+07  1.332806E+07  1.261878E+07
1.051721E+07
1.602574E+07  1.392417E+07  1.321489E+07  1.297846E+07  1.291542E+07
1.290071E+07  1.289545E+07  1.288980E+07  1.288415E+07  1.288289E+07
1.288263E+07  1.288238E+07  1.288112E+07  1.287547E+07  1.286666E+07
1.285195E+07  1.278943E+07  1.272691E+07  1.270799E+07  1.266985E+07
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9.378480E+06
1.565852E+07  1.355695E+07  1.284768E+07  1.261125E+07  1.254820E+07
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8.894342E+06
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1.190621E+07	1.189150E+07	1.182845E+07	1.159203E+07	1.088275E+07
8.781182E+06				
1.537281E+07	1.327125E+07	1.256197E+07	1.232554E+07	1.226250E+07
1.224778E+07	1.224253E+07	1.223688E+07	1.223122E+07	1.222996E+07
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1.198194E+07	1.013250E+05	1.196828E+07	1.190943E+07	1.185584E+07
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8.725558E+06				
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1.183085E+07	1.176833E+07	1.170580E+07	1.168689E+07	1.164875E+07
1.161376E+07	1.013250E+05	1.160010E+07	1.154125E+07	1.148766E+07
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1.054010E+07	1.053984E+07	1.053858E+07	1.053293E+07	1.052412E+07
1.050941E+07	1.044689E+07	1.038437E+07	1.036546E+07	1.032731E+07
1.029232E+07	1.013250E+05	1.027866E+07	1.021982E+07	1.016623E+07
1.016097E+07	1.014626E+07	1.008322E+07	9.846788E+06	9.137510E+06
7.035944E+06				
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8.600732E+06	8.538211E+06	8.475689E+06	8.456775E+06	8.418632E+06
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5.127264E+06				
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7.664567E+06	7.659314E+06	7.653661E+06	7.648007E+06	7.646746E+06
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7.615811E+06	7.553289E+06	7.490768E+06	7.471853E+06	7.433710E+06
7.398719E+06	1.013250E+05	7.385059E+06	7.326215E+06	7.272625E+06
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4.142342E+06				
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2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
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8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06				
7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05	7.395352E+05

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  7.395352E+05  1.013250E+05  7.395352E+05  7.395352E+05  7.395352E+05
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  7.395352E+05
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 GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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  1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 2.000000E-01
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
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 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
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  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
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  1  1  1  1  1
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
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 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 5  5  5  5  5
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22 22 22 22 22
   #     NAME
   1     S_HALITE
   2     DRZ_0
   3     TRANS_0
   4     S_MB139
   5     S_ANH_AB
   6     S_MB138
   7     CAVITY_1
   8     CAVITY_2
   9     CAVITY_3
  10     CAVITY_4
  11     IMPERM_Z
  12     CASTILER
  13     WAS_AREA
  14     REPOSIT
  15     DRZ_1
  16     UNNAMED
  17     CULEBRA
  18     TAMARISK
  19     MAGENTA
  20     FORTYNIN
  21     DEWYLAKE
  22     SANTAROS
  23     BACKFILL
  24     EXP_AREA
  25     SHFT_B_1
  26     SHFT_B_2
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 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 6.182000E+00 4.755000E-01 2.438000E-01
 2 6.182000E+00 0.000000E+00 0.000000E+00
 3 6.182000E+00 0.000000E+00 0.000000E+00
 4 2.635000E-01 3.155000E-01 1.450000E-01
 5 2.635000E-01 3.155000E-01 1.450000E-01
 6 2.635000E-01 3.155000E-01 1.450000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 3.569000E+00 1.753000E-01 3.906000E-01
14 3.569000E+00 1.753000E-01 3.906000E-01
15 6.182000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
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32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	6.182000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.992750E-01	1.013250E+05	1.000000E+08	2.131000E+07	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0
5	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0
6	3.312750E-01	1.013250E+05	1.000000E+08	7.638356E-02	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	1.840650E-01	1.013250E+05	1.000000E+08	2.885280E-01	-3.460000E-01	4	4	0
14	1.840650E-01	1.013250E+05	1.000000E+08	2.885280E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	3.524909E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	3.524909E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	2.089295E-22	2.089295E-22	2.089295E-22	4.326000E-03	2.234424E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07
3	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07
4	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08
5	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08
6	8.317640E-21	8.317640E-21	8.317640E-21	1.515000E-02	1.160495E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	4.326000E-03	1.917166E-07
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
24	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00
25	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
26	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08
27	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	1.333333E-08

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28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.737800E-17 1.737800E-17 1.737800E-17  5.000000E-02  2.000000E-08
33 1.737800E-17 1.737800E-17 1.737800E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 1.122019E-12 1.122019E-12 1.122019E-12  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  4.326000E-03  1.917166E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01    1    1    0
 5 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01    1    1    0
 6 1.830000E+06 2.500000E+06 2.515000E-02 5.253619E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  2.0642E-08   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
```

```
 1.4280E+00  0.0000E+00
 1.4280E+00  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.2802E+00  -1.4397E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V014.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,      MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,    DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
```

```
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  BINARY PRINT FLAGS
  1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
  0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
  0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  HISTORY VARIABLE OUTPUT
     8
     1     4     NAME=BRINE PRESSURE
11  8   1    17  8  1    11  1  1    22  6  1
     2     1     NAME=GAS PRESSURE
22 12   1
    10     6     NAME=GAS DENSITY
 7  6   1     7 12  1     7 14  1    25  6  1    25 12  1    25 14  1
    18    30     NAME=GAS SATURATION
 8  8   1     9  8  1    10  8  1    11  8  1    12  8  1    13  8  1
14  8   1     8  9  1     9  9  1    10  9  1    11  9  1    12  9  1
13  9   1    14  9  1     8 10  1     9 10  1    10 10  1    11 10  1
12 10   1    13 10  1    14 10  1    16  8  1    17  8  1    18  8  1
16  9   1    17  9  1    18  9  1    16 10  1    17 10  1    18 10  1
    31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6   1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22   1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6   1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22   1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6   1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8   1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8   1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6   1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12   1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18   1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24   1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8   1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14   1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20   1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26   1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5   1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11   1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17   1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23   1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2   1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8   1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14   1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20   1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26   1    12 27  1
    32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11   1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8   1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8   1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10   1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16   1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22   1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1   1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7   1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13   1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19   1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25   1    11 26  1    11 27  1
    34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22   1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6   1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22   1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6   1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8   1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8   1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6   1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12   1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18   1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24   1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8   1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14   1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
```

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23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.122177E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.122177E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
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3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
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3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
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3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
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3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
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6.663888E+02					
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4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
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8.067025E+02					
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
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  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
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 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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9.090245E+06
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
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 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
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 1  1  1  1  1
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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 22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
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  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
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 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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 18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
 18 18 18 18 18
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19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
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22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
  #     NAME
  1     S_HALITE
  2     DRZ_0
  3     TRANS_0
  4     S_MB139
  5     S_ANH_AB
  6     S_MB138
  7     CAVITY_1
  8     CAVITY_2
  9     CAVITY_3
 10     CAVITY_4
 11     IMPERM_Z
 12     CASTILER
 13     WAS_AREA
 14     REPOSIT
 15     DRZ_1
 16     UNNAMED
 17     CULEBRA
 18     TAMARISK
 19     MAGENTA
 20     FORTYNIN
 21     DEWYLAKE
 22     SANTAROS
 23     BACKFILL
 24     EXP_AREA
 25     SHFT_B_1
 26     SHFT_B_2
 27     SHFT_L_1
 28     SHFT_L_2
 29     SHFT_U_1
 30     SHFT_U_2
 31     SHFT_LS1
 32     SHFT_LS2
 33     SHFT_US1
 34     SHFT_US2
 35     PAN_S_1
 36     PAN_S_2
 37     BOREHOLE
 38     TRANS_1
 39     CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00     1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
```

```
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
  # LAMBDA         SOR          SGR
  1 3.644000E-01 9.551000E-02 9.013000E-02
  2 3.644000E-01 0.000000E+00 0.000000E+00
  3 3.644000E-01 0.000000E+00 0.000000E+00
  4 6.913000E-01 5.148000E-01 1.918000E-01
  5 6.913000E-01 5.148000E-01 1.918000E-01
  6 6.913000E-01 5.148000E-01 1.918000E-01
  7 7.000000E-01 0.000000E+00 0.000000E+00
  8 7.000000E-01 0.000000E+00 0.000000E+00
  9 7.000000E-01 0.000000E+00 0.000000E+00
 10 7.000000E-01 0.000000E+00 0.000000E+00
 11 1.000000E+00 0.000000E+00 0.000000E+00
 12 7.000000E-01 2.000000E-01 2.000000E-01
 13 1.738000E+00 2.488000E-01 1.368000E-01
 14 1.738000E+00 2.488000E-01 1.368000E-01
 15 3.644000E-01 0.000000E+00 0.000000E+00
 16 7.000000E-01 2.000000E-01 2.000000E-01
 17 7.000000E-01 2.000000E-01 2.000000E-01
 18 7.000000E-01 2.000000E-01 2.000000E-01
 19 7.000000E-01 2.000000E-01 2.000000E-01
 20 7.000000E-01 2.000000E-01 2.000000E-01
 21 7.000000E-01 2.000000E-01 2.000000E-01
 22 7.000000E-01 2.000000E-01 2.000000E-01
 23 7.000000E-01 0.000000E+00 0.000000E+00
 24 7.000000E-01 0.000000E+00 0.000000E+00
 25 7.000000E-01 2.000000E-01 2.000000E-01
 26 7.000000E-01 2.000000E-01 2.000000E-01
 27 7.000000E-01 2.000000E-01 2.000000E-01
 28 7.000000E-01 2.000000E-01 2.000000E-01
 29 7.000000E-01 2.000000E-01 2.000000E-01
 30 7.000000E-01 2.000000E-01 2.000000E-01
 31 7.000000E-01 2.000000E-01 2.000000E-01
 32 7.000000E-01 2.000000E-01 2.000000E-01
 33 7.000000E-01 2.000000E-01 2.000000E-01
 34 7.000000E-01 2.000000E-01 2.000000E-01
 35 7.000000E-01 2.000000E-01 2.000000E-01
 36 7.000000E-01 2.000000E-01 2.000000E-01
 37 7.000000E-01 2.000000E-01 0.000000E+00
 38 3.644000E-01 0.000000E+00 0.000000E+00
 39 7.000000E-01 0.000000E+00 0.000000E+00
  # SBMIN        PBMIN        PCMAX          PCT_A        PCT_EXP       KRP KPC KTP
  1 1.002855E-01 1.013250E+05 1.000000E+08 9.662000E+07  0.000000E+00  1   2   0
  2 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  1   1   0
  3 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  1   1   0
  4 5.405400E-01 1.013250E+05 1.000000E+08 4.954504E-02 -3.460000E-01  1   2   0
  5 5.405400E-01 1.013250E+05 1.000000E+08 4.954504E-02 -3.460000E-01  1   2   0
  6 5.405400E-01 1.013250E+05 1.000000E+08 4.954504E-02 -3.460000E-01  1   2   0
  7 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
  8 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
  9 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 10 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 11 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 12 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 13 2.612400E-01 1.013250E+05 1.000000E+08 1.185190E+00 -3.460000E-01  4   4   0
 14 2.612400E-01 1.013250E+05 1.000000E+08 1.185190E+00 -3.460000E-01  4   4   0
 15 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  1   1   0
 16 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 17 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 18 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 19 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 20 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 21 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 22 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 23 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 24 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4   1   0
 25 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 26 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 27 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
 28 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4   2   0
```

```
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  2.116938E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  2.116938E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  1  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 8.317640E-21 8.317640E-21 8.317640E-21  1.588000E-02  2.590939E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  1.588000E-02  5.204519E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  1.588000E-02  5.204519E-08
 4 4.265787E-19 4.265787E-19 4.265787E-19  7.151000E-03  1.232332E-09
 5 4.265787E-19 4.265787E-19 4.265787E-19  7.151000E-03  1.232332E-09
 6 4.265787E-19 4.265787E-19 4.265787E-19  7.151000E-03  1.232332E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  1.588000E-02  5.204519E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 7.585761E-17 7.585761E-17 7.585761E-17  5.000000E-02  2.000000E-08
33 7.585761E-17 7.585761E-17 7.585761E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 2.137962E-13 2.137962E-13 2.137962E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.588000E-02  5.204519E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF     FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01    1    1    0
 5 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01    1    1    0
 6 1.850000E+06 2.500000E+06 1.715100E-02 2.472736E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK         EXPKLINK
  9.80000E-01   -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1    0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
```

```
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  2.0477E-07   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  4.2602E-04   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  4.8530E-01  0.0000E+00
  4.8530E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.1493E+00  -1.7013E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03    3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03    2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
  0.0000E+00  T  F  1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.    MODEL 1= WASTE-FILLED, 2=BACKFILLED
 1   13         4
 2   14         4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
```

```
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V015.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,    TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLE OUTPUT
   8
   1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
   2    1    NAME=GAS PRESSURE
22 12  1
  10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
  18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
  31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
```

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23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69      NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   35    69      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
     3
 MONITOR BLOCKS (I,J,K)
    11    10     1
    17    10     1
    25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.475782E-01  2.000000E+00
```

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1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
1.500000E+04
GRID DATA CARDS: GRID BLOCK DY'S
2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+01  1.585300E+02  5.080000E+00
3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
4.330000E+01  1.566000E+01  1.000000E-01
GRID DATA CARDS: GRID BLOCK DZ'S
6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.475782E-01  4.800000E+00
2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
6.172690E+04
GRID BLOCK ELEVATIONS
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
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1.293640E+02
1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
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1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
5.176014E+02
6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
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6.485865E+02
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3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
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3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
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1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031031E+03  1.031130E+03  1.031130E+03
1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03  1.031130E+03
1.031130E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.038910E+03  1.039010E+03  1.039010E+03
1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03  1.039010E+03
1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20   1   T   F   8.520000E+05   0.000000E+00
 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
  1  27   1   T   T   1.013250E+05   2.000000E-01
  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 1.578225E+07  1.578225E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.578225E+07
 1.578225E+07
 1.548060E+07  1.548060E+07  1.548060E+07  1.548060E+07  1.548060E+07
```

1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07	1.548060E+07
1.548060E+07				
1.775447E+07	1.565290E+07	1.494362E+07	1.470719E+07	1.464415E+07
1.462944E+07	1.462418E+07	1.461853E+07	1.461288E+07	1.461161E+07
1.461136E+07	1.461111E+07	1.460985E+07	1.460420E+07	1.459539E+07
1.458068E+07	1.451816E+07	1.445564E+07	1.443672E+07	1.439858E+07
1.436359E+07	1.435728E+07	1.434993E+07	1.429108E+07	1.423749E+07
1.423224E+07	1.421753E+07	1.415448E+07	1.391806E+07	1.320878E+07
1.110721E+07				
1.661574E+07	1.451417E+07	1.380489E+07	1.356846E+07	1.350542E+07
1.349071E+07	1.348545E+07	1.347980E+07	1.347415E+07	1.347289E+07
1.347263E+07	1.347238E+07	1.347112E+07	1.346547E+07	1.345666E+07
1.344195E+07	1.337943E+07	1.331691E+07	1.329799E+07	1.325985E+07
1.322486E+07	1.321855E+07	1.321120E+07	1.315235E+07	1.309876E+07
1.309351E+07	1.307880E+07	1.301575E+07	1.277933E+07	1.207005E+07
9.968480E+06				
1.624852E+07	1.414695E+07	1.343768E+07	1.320125E+07	1.313820E+07
1.312349E+07	1.311824E+07	1.311258E+07	1.310693E+07	1.310567E+07
1.310542E+07	1.310516E+07	1.310390E+07	1.309825E+07	1.308945E+07
1.307473E+07	1.301221E+07	1.294969E+07	1.293078E+07	1.289263E+07
1.285764E+07	1.285134E+07	1.284398E+07	1.278514E+07	1.273155E+07
1.272629E+07	1.271158E+07	1.264854E+07	1.241211E+07	1.170283E+07
9.601264E+06				
1.617718E+07	1.407562E+07	1.336634E+07	1.312991E+07	1.306687E+07
1.305215E+07	1.304690E+07	1.304125E+07	1.303559E+07	1.303433E+07
1.303408E+07	1.303383E+07	1.303257E+07	1.302691E+07	1.301811E+07
1.300340E+07	1.294088E+07	1.287835E+07	1.285944E+07	1.282130E+07
1.278631E+07	1.013250E+05	1.277265E+07	1.271380E+07	1.266021E+07
1.265496E+07	1.264025E+07	1.257720E+07	1.234077E+07	1.163150E+07
9.529928E+06				
1.616376E+07	1.406219E+07	1.335291E+07	1.311649E+07	1.305344E+07
1.303873E+07	1.303348E+07	1.302782E+07	1.302217E+07	1.302091E+07
1.302066E+07	1.302040E+07	1.301914E+07	1.301349E+07	1.300468E+07
1.298997E+07	1.292745E+07	1.286493E+07	1.284602E+07	1.280787E+07
1.277288E+07	1.013250E+05	1.275922E+07	1.270038E+07	1.264679E+07
1.264153E+07	1.262682E+07	1.256378E+07	1.232735E+07	1.161807E+07
9.516503E+06				
1.614750E+07	1.404594E+07	1.333666E+07	1.310023E+07	1.303718E+07
1.302247E+07	1.301722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.263053E+07
1.262528E+07	1.261056E+07	1.254752E+07	1.231109E+07	1.160181E+07
9.500245E+06				
1.613160E+07	1.403003E+07	1.332075E+07	1.308433E+07	1.302128E+07
1.300657E+07	1.300132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.261463E+07
1.260937E+07	1.259466E+07	1.253161E+07	1.229519E+07	1.158591E+07
9.484342E+06				
1.611570E+07	1.401413E+07	1.330485E+07	1.306843E+07	1.300538E+07
1.299067E+07	1.298541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.259872E+07
1.259347E+07	1.257876E+07	1.251571E+07	1.227929E+07	1.157001E+07
9.468441E+06				
1.609199E+07	1.399042E+07	1.328114E+07	1.304472E+07	1.298167E+07
1.296696E+07	1.296170E+07	1.295605E+07	1.295040E+07	1.294914E+07
1.294888E+07	1.294863E+07	1.294737E+07	1.294172E+07	1.293291E+07
1.291820E+07	1.285568E+07	1.279316E+07	1.277424E+07	1.273610E+07
1.270111E+07	1.013250E+05	1.268745E+07	1.262860E+07	1.257502E+07
1.256976E+07	1.255505E+07	1.249200E+07	1.225558E+07	1.154630E+07
9.444732E+06				
1.607460E+07	1.397304E+07	1.326376E+07	1.302733E+07	1.296429E+07
1.294957E+07	1.294432E+07	1.293867E+07	1.293301E+07	1.293175E+07
1.293150E+07	1.293125E+07	1.292999E+07	1.292433E+07	1.291553E+07
1.290082E+07	1.283830E+07	1.277577E+07	1.275686E+07	1.271872E+07
1.268373E+07	1.013250E+05	1.267007E+07	1.261122E+07	1.255763E+07
1.255238E+07	1.253767E+07	1.247462E+07	1.223819E+07	1.152891E+07
9.427348E+06				

1.601844E+07	1.391687E+07	1.320759E+07	1.297117E+07	1.290812E+07
1.289341E+07	1.288815E+07	1.288250E+07	1.287685E+07	1.287559E+07
1.287533E+07	1.287508E+07	1.287382E+07	1.286817E+07	1.285936E+07
1.284465E+07	1.278213E+07	1.271961E+07	1.270069E+07	1.266255E+07
1.262756E+07	1.013250E+05	1.261390E+07	1.255506E+07	1.250147E+07
1.249621E+07	1.248150E+07	1.241845E+07	1.218203E+07	1.147275E+07
9.371182E+06				
1.596281E+07	1.386125E+07	1.315197E+07	1.291554E+07	1.285250E+07
1.283778E+07	1.283253E+07	1.282688E+07	1.282122E+07	1.281996E+07
1.281971E+07	1.281946E+07	1.281820E+07	1.281254E+07	1.280374E+07
1.278903E+07	1.272651E+07	1.266398E+07	1.264507E+07	1.260693E+07
1.257194E+07	1.013250E+05	1.255828E+07	1.249943E+07	1.244584E+07
1.244059E+07	1.242588E+07	1.236283E+07	1.212640E+07	1.141712E+07
9.315558E+06				
1.559463E+07	1.349307E+07	1.278379E+07	1.254736E+07	1.248432E+07
1.246961E+07	1.246435E+07	1.245870E+07	1.245304E+07	1.245178E+07
1.245153E+07	1.245128E+07	1.245002E+07	1.244437E+07	1.243556E+07
1.242085E+07	1.235833E+07	1.229580E+07	1.227689E+07	1.223875E+07
1.220376E+07	1.013250E+05	1.219010E+07	1.213125E+07	1.207766E+07
1.207241E+07	1.205770E+07	1.199465E+07	1.175822E+07	1.104895E+07
8.947379E+06				
1.427320E+07	1.217163E+07	1.146235E+07	1.122593E+07	1.116288E+07
1.114817E+07	1.114292E+07	1.113726E+07	1.113161E+07	1.113035E+07
1.113010E+07	1.112984E+07	1.112858E+07	1.112293E+07	1.111412E+07
1.109941E+07	1.103689E+07	1.097437E+07	1.095546E+07	1.091731E+07
1.088232E+07	1.013250E+05	1.086866E+07	1.080982E+07	1.075623E+07
1.075097E+07	1.073626E+07	1.067322E+07	1.043679E+07	9.727510E+06
7.625944E+06				
1.236452E+07	1.026295E+07	9.553674E+06	9.317247E+06	9.254200E+06
9.239489E+06	9.234235E+06	9.228582E+06	9.222928E+06	9.221667E+06
9.221415E+06	9.221163E+06	9.219902E+06	9.214249E+06	9.205443E+06
9.190732E+06	9.128211E+06	9.065689E+06	9.046775E+06	9.008632E+06
8.973641E+06	1.013250E+05	8.959980E+06	8.901136E+06	8.847546E+06
8.842292E+06	8.827582E+06	8.764535E+06	8.528108E+06	7.818830E+06
5.717264E+06				
1.137960E+07	9.278031E+06	8.568752E+06	8.332326E+06	8.269278E+06
8.254567E+06	8.249314E+06	8.243661E+06	8.238007E+06	8.236746E+06
8.236493E+06	8.236241E+06	8.234981E+06	8.229328E+06	8.220522E+06
8.205811E+06	8.143289E+06	8.080768E+06	8.061853E+06	8.023710E+06
7.988719E+06	1.013250E+05	7.975059E+06	7.916215E+06	7.862625E+06
7.857371E+06	7.842660E+06	7.779613E+06	7.543187E+06	6.833909E+06
4.732342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.013250E+05	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06

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  1.481906E+06
  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05  1.013250E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05  7.395352E+05
  7.395352E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05  1.013250E+05
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  1.013250E+05
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 GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
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 31*0.000000E+00
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 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
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  5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
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 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
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19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
   #       NAME
   1       S_HALITE
   2       DRZ_0
   3       TRANS_0
   4       S_MB139
   5       S_ANH_AB
   6       S_MB138
   7       CAVITY_1
   8       CAVITY_2
   9       CAVITY_3
  10       CAVITY_4
  11       IMPERM_Z
  12       CASTILER
  13       WAS_AREA
  14       REPOSIT
  15       DRZ_1
  16       UNNAMED
  17       CULEBRA
  18       TAMARISK
  19       MAGENTA
  20       FORTYNIN
  21       DEWYLAKE
  22       SANTAROS
  23       BACKFILL
  24       EXP_AREA
```

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  25      SHFT_B_1
  26      SHFT_B_2
  27      SHFT_L_1
  28      SHFT_L_2
  29      SHFT_U_1
  30      SHFT_U_2
  31      SHFT_LS1
  32      SHFT_LS2
  33      SHFT_US1
  34      SHFT_US2
  35      PAN_S_1
  36      PAN_S_2
  37      BOREHOLE
  38      TRANS_1
  39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 6.258000E-01 1.457000E-01 3.820000E-02
 2 6.258000E-01 0.000000E+00 0.000000E+00
 3 6.258000E-01 0.000000E+00 0.000000E+00
 4 4.498000E-01 2.215000E-01 3.221000E-01
 5 4.498000E-01 2.215000E-01 3.221000E-01
 6 4.498000E-01 2.215000E-01 3.221000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 9.321000E+00 1.456000E-01 1.405000E-01
14 9.321000E+00 1.456000E-01 1.405000E-01
15 6.258000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
```

```
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 6.258000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A         PCT_EXP      KRP KPC KTP
 1 1.529850E-01 1.013250E+05 1.000000E+08  2.356000E+07  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 2.325750E-01 1.013250E+05 1.000000E+08  2.824881E-03 -3.460000E-01  4   2   0
 5 2.325750E-01 1.013250E+05 1.000000E+08  2.824881E-03 -3.460000E-01  4   2   0
 6 2.325750E-01 1.013250E+05 1.000000E+08  2.824881E-03 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 1.528800E-01 1.013250E+05 1.000000E+08  1.062400E+00 -3.460000E-01  1   4   0
14 1.528800E-01 1.013250E+05 1.000000E+08  1.062400E+00 -3.460000E-01  1   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
32 2.100000E-01 1.013250E+05 1.000000E+08  3.940830E+05  0.000000E+00  4   2   0
33 2.100000E-01 1.013250E+05 1.000000E+08  3.940830E+05  0.000000E+00  4   2   0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4   2   0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 5.754402E-21 5.754402E-21 5.754402E-21  1.483000E-03  1.741734E-08
 2 1.000000E-15 1.000000E-15 1.000000E-15  1.483000E-03  5.597282E-07
 3 1.000000E-15 1.000000E-15 1.000000E-15  1.483000E-03  5.597282E-07
 4 2.884025E-20 2.884025E-20 2.884025E-20  2.341000E-02  4.362226E-09
 5 2.884025E-20 2.884025E-20 2.884025E-20  2.341000E-02  4.362226E-09
 6 2.884025E-20 2.884025E-20 2.884025E-20  2.341000E-02  4.362226E-09
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  1.483000E-03  5.597282E-07
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
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26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 1.258927E-17 1.258927E-17 1.258927E-17  5.000000E-02  2.000000E-08
33 1.258927E-17 1.258927E-17 1.258927E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 2.884032E-13 2.884032E-13 2.884032E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.483000E-03  5.597282E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01    1    1    0
 5 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01    1    1    0
 6 1.780000E+06 2.500000E+06 3.341000E-02 6.975378E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0000E+00   2.4937E-06   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  0.0000E+00   1.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
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 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 8.2160E-02  0.0000E+00
 8.2160E-02  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.2226E+00  -1.5549E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
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BF2_QB0600_TEST7_V016.INP

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1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
```

```
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
```

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23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.913914E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.913914E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
```

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3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
6.497014E+02
9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
6.523721E+02
1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
3.628169E+02  3.632864E+02  3.640177E+02  3.652393E+02  3.704314E+02  3.756235E+02
3.771942E+02  3.803618E+02  3.832677E+02  3.837913E+02  3.844021E+02  3.892888E+02
3.937391E+02  3.941754E+02  3.953971E+02  4.006328E+02  4.202668E+02  4.791686E+02
6.536927E+02
1.036419E+02  2.781660E+02  3.370679E+02  3.567019E+02  3.619376E+02  3.631592E+02
3.635956E+02  3.640650E+02  3.645345E+02  3.646392E+02  3.646602E+02  3.646811E+02
3.647858E+02  3.652553E+02  3.659866E+02  3.672083E+02  3.724003E+02  3.775924E+02
3.791631E+02  3.823307E+02  3.852366E+02  3.857602E+02  3.863710E+02  3.912577E+02
3.957080E+02  3.961443E+02  3.973660E+02  4.026017E+02  4.222357E+02  4.811375E+02
6.556616E+02
1.050855E+02  2.796096E+02  3.385115E+02  3.581454E+02  3.633812E+02  3.646028E+02
3.650392E+02  3.655086E+02  3.659781E+02  3.660828E+02  3.661038E+02  3.661247E+02
3.662294E+02  3.666989E+02  3.674301E+02  3.686518E+02  3.738439E+02  3.790360E+02
3.806067E+02  3.837743E+02  3.866802E+02  3.872037E+02  3.878146E+02  3.927012E+02
3.971516E+02  3.975879E+02  3.988096E+02  4.040453E+02  4.236793E+02  4.825811E+02
6.571052E+02
1.097498E+02  2.842739E+02  3.431758E+02  3.628097E+02  3.680454E+02  3.692671E+02
3.697034E+02  3.701729E+02  3.706424E+02  3.707471E+02  3.707680E+02  3.707890E+02
3.708937E+02  3.713632E+02  3.720945E+02  3.733161E+02  3.785082E+02  3.837003E+02
3.852710E+02  3.884386E+02  3.913445E+02  3.918680E+02  3.924789E+02  3.973655E+02
4.018159E+02  4.022522E+02  4.034739E+02  4.087096E+02  4.283435E+02  4.872454E+02
6.617695E+02
1.143691E+02  2.888932E+02  3.477951E+02  3.674290E+02  3.726647E+02  3.738864E+02
3.743227E+02  3.747922E+02  3.752617E+02  3.753664E+02  3.753873E+02  3.754083E+02
3.755130E+02  3.759825E+02  3.767137E+02  3.779354E+02  3.831275E+02  3.883196E+02
3.898903E+02  3.930579E+02  3.959637E+02  3.964873E+02  3.970981E+02  4.019848E+02
4.064352E+02  4.068715E+02  4.080932E+02  4.133289E+02  4.329628E+02  4.918647E+02
6.663888E+02
1.449445E+02  3.194685E+02  3.783704E+02  3.980044E+02  4.032401E+02  4.044618E+02
4.048981E+02  4.053676E+02  4.058370E+02  4.059417E+02  4.059627E+02  4.059836E+02
4.060883E+02  4.065578E+02  4.072891E+02  4.085107E+02  4.137029E+02  4.188949E+02
4.204656E+02  4.236333E+02  4.265391E+02  4.270627E+02  4.276735E+02  4.325602E+02
4.370105E+02  4.374468E+02  4.386685E+02  4.439042E+02  4.635382E+02  5.224401E+02
6.969641E+02
2.546828E+02  4.292068E+02  4.881087E+02  5.077427E+02  5.129784E+02  5.142001E+02
5.146364E+02  5.151058E+02  5.155753E+02  5.156801E+02  5.157010E+02  5.157219E+02
5.158267E+02  5.162961E+02  5.170274E+02  5.182490E+02  5.234412E+02  5.286332E+02
5.302040E+02  5.333716E+02  5.362774E+02  5.368010E+02  5.374118E+02  5.422985E+02
5.467488E+02  5.471852E+02  5.484068E+02  5.536425E+02  5.732765E+02  6.321783E+02
```

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8.067025E+02
4.131886E+02  5.877127E+02  6.466146E+02  6.662485E+02  6.714843E+02  6.727059E+02
6.731423E+02  6.736117E+02  6.740812E+02  6.741859E+02  6.742068E+02  6.742278E+02
6.743325E+02  6.748020E+02  6.755333E+02  6.767549E+02  6.819470E+02  6.871391E+02
6.887098E+02  6.918774E+02  6.947833E+02  6.953069E+02  6.959177E+02  7.008043E+02
7.052547E+02  7.056910E+02  7.069127E+02  7.121484E+02  7.317823E+02  7.906842E+02
9.652083E+02
4.949812E+02  6.695053E+02  7.284072E+02  7.480411E+02  7.532769E+02  7.544985E+02
7.549348E+02  7.554043E+02  7.558738E+02  7.559785E+02  7.559995E+02  7.560204E+02
7.561251E+02  7.565945E+02  7.573259E+02  7.585475E+02  7.637396E+02  7.689317E+02
7.705024E+02  7.736700E+02  7.765759E+02  7.770994E+02  7.777103E+02  7.825969E+02
7.870472E+02  7.874836E+02  7.887053E+02  7.939410E+02  8.135750E+02  8.724768E+02
1.047001E+03
7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02  7.977001E+02
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8.195501E+02
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1.039010E+03
WELL DATA
 0
DIRICHLET CONDITIONS
T     35
  1  20    1    T    F    8.520000E+05    0.000000E+00
 31  20    1    T    F    8.520000E+05    0.000000E+00
  1  22    1    T    F    9.000000E+05    0.000000E+00
 31  22    1    T    F    9.000000E+05    0.000000E+00
  1  27    1    T    T    1.013250E+05    2.000000E-01
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   3  27   1   T   T   1.013250E+05   2.000000E-01
   4  27   1   T   T   1.013250E+05   2.000000E-01
   5  27   1   T   T   1.013250E+05   2.000000E-01
   6  27   1   T   T   1.013250E+05   2.000000E-01
   7  27   1   T   T   1.013250E+05   2.000000E-01
   8  27   1   T   T   1.013250E+05   2.000000E-01
   9  27   1   T   T   1.013250E+05   2.000000E-01
  10  27   1   T   T   1.013250E+05   2.000000E-01
  11  27   1   T   T   1.013250E+05   2.000000E-01
  12  27   1   T   T   1.013250E+05   2.000000E-01
  13  27   1   T   T   1.013250E+05   2.000000E-01
  14  27   1   T   T   1.013250E+05   2.000000E-01
  15  27   1   T   T   1.013250E+05   2.000000E-01
  16  27   1   T   T   1.013250E+05   2.000000E-01
  17  27   1   T   T   1.013250E+05   2.000000E-01
  18  27   1   T   T   1.013250E+05   2.000000E-01
  19  27   1   T   T   1.013250E+05   2.000000E-01
  20  27   1   T   T   1.013250E+05   2.000000E-01
  21  27   1   T   T   1.013250E+05   2.000000E-01
  22  27   1   T   T   1.013250E+05   2.000000E-01
  23  27   1   T   T   1.013250E+05   2.000000E-01
  24  27   1   T   T   1.013250E+05   2.000000E-01
  25  27   1   T   T   1.013250E+05   2.000000E-01
  26  27   1   T   T   1.013250E+05   2.000000E-01
  27  27   1   T   T   1.013250E+05   2.000000E-01
  28  27   1   T   T   1.013250E+05   2.000000E-01
  29  27   1   T   T   1.013250E+05   2.000000E-01
  30  27   1   T   T   1.013250E+05   2.000000E-01
  31  27   1   T   T   1.013250E+05   2.000000E-01
 GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  1.553225E+07  1.553225E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.553225E+07
  1.553225E+07
  1.523060E+07  1.523060E+07  1.523060E+07  1.523060E+07  1.523060E+07
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  1.523060E+07  1.523060E+07  1.523060E+07  1.523060E+07  1.523060E+07
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  1.523060E+07
  1.750447E+07  1.540290E+07  1.469362E+07  1.445719E+07  1.439415E+07
  1.437944E+07  1.437418E+07  1.436853E+07  1.436288E+07  1.436161E+07
  1.436136E+07  1.436111E+07  1.435985E+07  1.435420E+07  1.434539E+07
  1.433068E+07  1.426816E+07  1.420564E+07  1.418672E+07  1.414858E+07
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  1.398224E+07  1.396753E+07  1.390448E+07  1.366806E+07  1.295878E+07
  1.085721E+07
  1.636574E+07  1.426417E+07  1.355489E+07  1.331846E+07  1.325542E+07
  1.324071E+07  1.323545E+07  1.322980E+07  1.322415E+07  1.322289E+07
  1.322263E+07  1.322238E+07  1.322112E+07  1.321547E+07  1.320666E+07
  1.319195E+07  1.312943E+07  1.306691E+07  1.304799E+07  1.300985E+07
  1.297486E+07  1.296855E+07  1.296120E+07  1.290235E+07  1.284876E+07
  1.284351E+07  1.282880E+07  1.276575E+07  1.252933E+07  1.182005E+07
  9.718480E+06
  1.599852E+07  1.389695E+07  1.318768E+07  1.295125E+07  1.288820E+07
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  1.260764E+07  1.260134E+07  1.259398E+07  1.253514E+07  1.248155E+07
  1.247629E+07  1.246158E+07  1.239854E+07  1.216211E+07  1.145283E+07
  9.351264E+06
  1.592718E+07  1.382562E+07  1.311634E+07  1.287991E+07  1.281687E+07
  1.280215E+07  1.279690E+07  1.279125E+07  1.278559E+07  1.278433E+07
  1.278408E+07  1.278383E+07  1.278257E+07  1.277691E+07  1.276811E+07
  1.275340E+07  1.269088E+07  1.262835E+07  1.260944E+07  1.257130E+07
  1.253631E+07  1.013250E+05  1.252265E+07  1.246380E+07  1.241021E+07
  1.240496E+07  1.239025E+07  1.232720E+07  1.209077E+07  1.138150E+07
  9.279928E+06
  1.591376E+07  1.381219E+07  1.310291E+07  1.286649E+07  1.280344E+07
  1.278873E+07  1.278348E+07  1.277782E+07  1.277217E+07  1.277091E+07
  1.277066E+07  1.277040E+07  1.276914E+07  1.276349E+07  1.275468E+07
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1.273997E+07	1.267745E+07	1.261493E+07	1.259602E+07	1.255787E+07
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1.239153E+07	1.237682E+07	1.231378E+07	1.207735E+07	1.136807E+07
9.266503E+06				
1.589750E+07	1.379594E+07	1.308666E+07	1.285023E+07	1.278718E+07
1.277247E+07	1.276722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.238053E+07
1.237528E+07	1.236056E+07	1.229752E+07	1.206109E+07	1.135181E+07
9.250245E+06				
1.588160E+07	1.378003E+07	1.307075E+07	1.283433E+07	1.277128E+07
1.275657E+07	1.275132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.236463E+07
1.235937E+07	1.234466E+07	1.228161E+07	1.204519E+07	1.133591E+07
9.234342E+06				
1.586570E+07	1.376413E+07	1.305485E+07	1.281843E+07	1.275538E+07
1.274067E+07	1.273541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.234872E+07
1.234347E+07	1.232876E+07	1.226571E+07	1.202929E+07	1.132001E+07
9.218441E+06				
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1.245111E+07	1.013250E+05	1.243745E+07	1.237860E+07	1.232502E+07
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1.262533E+07	1.262508E+07	1.262382E+07	1.261817E+07	1.260936E+07
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1.237756E+07	1.013250E+05	1.236390E+07	1.230506E+07	1.225147E+07
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9.121182E+06				
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1.256971E+07	1.256946E+07	1.256820E+07	1.256254E+07	1.255374E+07
1.253903E+07	1.247651E+07	1.241398E+07	1.239507E+07	1.235693E+07
1.232194E+07	1.013250E+05	1.230828E+07	1.224943E+07	1.219584E+07
1.219059E+07	1.217588E+07	1.211283E+07	1.187640E+07	1.116713E+07
9.065558E+06				
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1.221961E+07	1.221435E+07	1.220870E+07	1.220304E+07	1.220178E+07
1.220153E+07	1.220128E+07	1.220002E+07	1.219437E+07	1.218556E+07
1.217085E+07	1.210833E+07	1.204580E+07	1.202689E+07	1.198875E+07
1.195376E+07	1.013250E+05	1.194010E+07	1.188125E+07	1.182766E+07
1.182241E+07	1.180770E+07	1.174465E+07	1.150822E+07	1.079895E+07
8.697379E+06				
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1.089817E+07	1.089292E+07	1.088726E+07	1.088161E+07	1.088035E+07
1.088010E+07	1.087984E+07	1.087858E+07	1.087293E+07	1.086412E+07
1.084941E+07	1.078689E+07	1.072437E+07	1.070546E+07	1.066731E+07
1.063232E+07	1.013250E+05	1.061866E+07	1.055982E+07	1.050623E+07
1.050097E+07	1.048626E+07	1.042322E+07	1.018679E+07	9.477510E+06
7.375944E+06				
1.211452E+07	1.001295E+07	9.303673E+06	9.067247E+06	9.004200E+06
8.989489E+06	8.984235E+06	8.978582E+06	8.972928E+06	8.971667E+06
8.971415E+06	8.971163E+06	8.969902E+06	8.964249E+06	8.955443E+06
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8.723641E+06	1.013250E+05	8.709980E+06	8.651136E+06	8.597546E+06
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5.467264E+06				
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8.004567E+06	7.999314E+06	7.993661E+06	7.988007E+06	7.986746E+06

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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
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 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
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 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
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 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
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 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
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11 11 11 11 11
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 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
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 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
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 6  6  6  6  6
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22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
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 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4
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 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
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 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1
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 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
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 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
17 17 17 17 17
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18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
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  #     NAME
  1     S_HALITE
  2     DRZ_0
  3     TRANS_0
  4     S_MB139
  5     S_ANH_AB
  6     S_MB138
  7     CAVITY_1
  8     CAVITY_2
  9     CAVITY_3
 10     CAVITY_4
 11     IMPERM_Z
 12     CASTILER
 13     WAS_AREA
 14     REPOSIT
 15     DRZ_1
 16     UNNAMED
 17     CULEBRA
 18     TAMARISK
 19     MAGENTA
 20     FORTYNIN
 21     DEWYLAKE
 22     SANTAROS
 23     BACKFILL
 24     EXP_AREA
 25     SHFT_B_1
 26     SHFT_B_2
 27     SHFT_L_1
 28     SHFT_L_2
 29     SHFT_U_1
 30     SHFT_U_2
 31     SHFT_LS1
 32     SHFT_LS2
 33     SHFT_US1
 34     SHFT_US2
 35     PAN_S_1
 36     PAN_S_2
 37     BOREHOLE
 38     TRANS_1
 39     CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
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 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA        SOR           SGR
 1 9.009000E+00 3.718000E-02 3.869000E-01
 2 9.009000E+00 0.000000E+00 0.000000E+00
 3 9.009000E+00 0.000000E+00 0.000000E+00
 4 9.422000E+00 7.123000E-02 1.134000E-01
 5 9.422000E+00 7.123000E-02 1.134000E-01
 6 9.422000E+00 7.123000E-02 1.134000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 4.563000E-01 3.100000E-02 9.095000E-02
14 4.563000E-01 3.100000E-02 9.095000E-02
15 9.009000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 9.009000E+00 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN         PBMIN         PCMAX          PCT_A         PCT_EXP       KRP KPC KTP
 1 3.903900E-02 1.013250E+05 1.000000E+08  8.595000E+06  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 7.479150E-02 1.013250E+05 1.000000E+08  4.920394E-01 -3.460000E-01  4   2   0
 5 7.479150E-02 1.013250E+05 1.000000E+08  4.920394E-01 -3.460000E-01  4   2   0
 6 7.479150E-02 1.013250E+05 1.000000E+08  4.920394E-01 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 3.255000E-02 1.013250E+05 1.000000E+08  3.448959E-01 -3.460000E-01  4   4   0
14 3.255000E-02 1.013250E+05 1.000000E+08  3.448959E-01 -3.460000E-01  4   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
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27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  2.865417E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  2.865417E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY     COMPRES
 1 1.122017E-23 1.122017E-23 1.122017E-23  1.389000E-02  5.953114E-09
 2 1.000000E-15 1.000000E-15 1.000000E-15  1.389000E-02  5.953745E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  1.389000E-02  5.953745E-08
 4 5.011881E-20 5.011881E-20 5.011881E-20  1.787000E-02  3.125846E-10
 5 5.011881E-20 5.011881E-20 5.011881E-20  1.787000E-02  3.125846E-10
 6 5.011881E-20 5.011881E-20 5.011881E-20  1.787000E-02  3.125846E-10
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  1.389000E-02  5.953745E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 3.162278E-17 3.162278E-17 3.162278E-17  5.000000E-02  2.000000E-08
33 3.162278E-17 3.162278E-17 3.162278E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 9.549916E-13 9.549916E-13 9.549916E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.389000E-02  5.953745E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF     FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.400000E+06 2.500000E+06 2.787000E-02 5.341705E+01    1    1    0
 5 1.400000E+06 2.500000E+06 2.787000E-02 5.341705E+01    1    1    0
 6 1.400000E+06 2.500000E+06 2.787000E-02 5.341705E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK       EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
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 1.80000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 2.1510E-08   0.0000E+00   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0000E+00   0.0000E+00
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 1.4290E-01  0.0000E+00
 1.4290E-01  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.1327E+00   -1.7346E+00   -1.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   -1.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
 0.0000E+00   0.0000E+00   0.0000E+00   0.0000E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00   0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03    3.40000E+03    4.70000E+03    1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03    2.37000E+03    3.05000E+03    2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
```

```
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V017.INP

```
 1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    2
 USER REQUESTED PRINTOUT TIMES
  0.0000E+00   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
     8
     1     4     NAME=BRINE PRESSURE
11  8   1    17  8  1    11  1  1    22  6  1
     2     1     NAME=GAS PRESSURE
22 12   1
    10     6     NAME=GAS DENSITY
 7  6   1     7 12  1     7 14  1    25  6  1    25 12  1    25 14  1
    18    30     NAME=GAS SATURATION
 8  8   1     9  8  1    10  8  1    11  8  1    12  8  1    13  8  1
14  8   1     8  9  1     9  9  1    10  9  1    11  9  1    12  9  1
13  9   1    14  9  1     8 10  1     9 10  1    10 10  1    11 10  1
12 10   1    13 10  1    14 10  1    16  8  1    17  8  1    18  8  1
16  9   1    17  9  1    18  9  1    16 10  1    17 10  1    18 10  1
    31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6   1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22   1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6   1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22   1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6   1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8   1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8   1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6   1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12   1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18   1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
```

```
22 24   1    22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   32    69      NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
   34   140      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1     3 12   1     3 14   1     3 19   1     3 20   1     3 21   1
 3 22   1     3 23   1     3 24   1     3 25   1     3 26   1     3 27   1
30  6   1    30 12   1    30 14   1    30 19   1    30 20   1    30 21   1
30 22   1    30 23   1    30 24   1    30 25   1    30 26   1    30 27   1
 8  6   1     8 12   1     8 14   1    25  6   1    25 12   1    25 14   1
16  8   1    16  9   1    16 10   1    19  8   1    19  9   1    19 10   1
 8  8   1     8  9   1     8 10   1    15  8   1    15  9   1    15 10   1
22  6   1    22  7   1    22  8   1    22  9   1    22 10   1    22 11   1
22 12   1    22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1    22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1    22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
```

```
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.711854E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.711854E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
 3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
 3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
 3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
 3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
 6.497014E+02
 9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
 3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
 3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
 3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
 3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
 3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
 3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
 3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
 3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
 6.523721E+02
 1.016731E+02  2.761971E+02  3.350990E+02  3.547329E+02  3.599687E+02  3.611903E+02
 3.616266E+02  3.620961E+02  3.625656E+02  3.626703E+02  3.626913E+02  3.627122E+02
```

3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
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4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
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  2  27   1   T   T   1.013250E+05   2.000000E-01
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  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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0.000000E+00  0.000000E+00  8.395602E+01  8.395602E+01  8.395602E+01
8.395602E+01  8.395602E+01  8.395602E+01  8.395602E+01  0.000000E+00
8.395602E+01  8.395602E+01  8.395602E+01  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
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31*0.000000E+00
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 31*0.000000E+00
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 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
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  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
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 START TIME FOR MAP 2
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 MATERIAL TYPE GRID MAP
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  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
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  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
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22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
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12 12 12 11 11
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11 11 11 11 11
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 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
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11 11 11 11 11
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 4  4  4  4  4
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22 22 22 22 22
   #       NAME
   1       S_HALITE
   2       DRZ_0
   3       TRANS_0
   4       S_MB139
   5       S_ANH_AB
   6       S_MB138
   7       CAVITY_1
   8       CAVITY_2
   9       CAVITY_3
  10       CAVITY_4
  11       IMPERM_Z
  12       CASTILER
  13       WAS_AREA
  14       REPOSIT
  15       DRZ_1
  16       UNNAMED
  17       CULEBRA
  18       TAMARISK
  19       MAGENTA
  20       FORTYNIN
  21       DEWYLAKE
  22       SANTAROS
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 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI    MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 9.975000E+00 2.142000E-01 1.649000E-01
 2 9.975000E+00 0.000000E+00 0.000000E+00
 3 9.975000E+00 0.000000E+00 0.000000E+00
 4 6.409000E-01 1.214000E-01 5.474000E-02
 5 6.409000E-01 1.214000E-01 5.474000E-02
 6 6.409000E-01 1.214000E-01 5.474000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 5.978000E+00 1.818000E-01 3.656000E-01
14 5.978000E+00 1.818000E-01 3.656000E-01
15 9.975000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
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28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	9.975000E+00	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	2.249100E-01	1.013250E+05	1.000000E+08	3.663000E+06	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0
5	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0
6	1.274700E-01	1.013250E+05	1.000000E+08	5.284447E-03	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	1.908900E-01	1.013250E+05	1.000000E+08	2.465971E-01	-3.460000E-01	1	4	0
14	1.908900E-01	1.013250E+05	1.000000E+08	2.465971E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	3.203521E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	3.203521E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	7.413117E-21	7.413117E-21	7.413117E-21	1.097000E-02	3.058938E-08
2	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08
4	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09
5	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09
6	7.762460E-19	7.762460E-19	7.762460E-19	4.409000E-02	1.594898E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	1.097000E-02	7.545170E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08
22	1.000000E-10	1.000000E-10	1.000000E-10	1.750000E-01	5.714286E-08
23	1.000000E-12	1.000000E-12	1.000000E-12	7.500000E-02	0.000000E+00

```
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 2.290871E-17 2.290871E-17 2.290871E-17  5.000000E-02  2.000000E-08
33 2.290871E-17 2.290871E-17 2.290871E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 4.570880E-13 4.570880E-13 4.570880E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  1.097000E-02  7.545170E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02    1    1    0
 5 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02    1    1    0
 6 1.870000E+06 2.500000E+06 5.409000E-02 1.041362E+02    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03 31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND AND BIODEGRADATION (RKBIO)
  0.0000E+00    1.2085E-07    F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
```

```
 0.0000E+00   1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 5.3320E-01  0.0000E+00
 5.3320E-01  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.1560E+00  -1.6880E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V018.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,      MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
```

```
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
    2     1     NAME=GAS PRESSURE
22 12  1
   10     6     NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
   18    30     NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
22 18  1   22 19  1   22 20  1   22 21  1   22 22  1   22 23  1
22 24  1   22 25  1   22 26  1   22 27  1   23  6  1   23  7  1
23  8  1   23  9  1   23 10  1   23 11  1   23 12  1   23 13  1
23 14  1   23 15  1   23 16  1   23 17  1   23 18  1   23 19  1
23 20  1   23 21  1   23 22  1   23 23  1   23 24  1   23 25  1
23 26  1   23 27  1   11  1  1   11  2  1   11  3  1   11  4  1
11  5  1   11  6  1   11  7  1   11  8  1   11  9  1   11 10  1
11 11  1   11 12  1   11 13  1   11 14  1   11 15  1   11 16  1
11 17  1   11 18  1   11 19  1   11 20  1   11 21  1   11 22  1
11 23  1   11 24  1   11 25  1   11 26  1   11 27  1   12  1  1
12  2  1   12  3  1   12  4  1   12  5  1   12  6  1   12  7  1
12  8  1   12  9  1   12 10  1   12 11  1   12 12  1   12 13  1
12 14  1   12 15  1   12 16  1   12 17  1   12 18  1   12 19  1
12 20  1   12 21  1   12 22  1   12 23  1   12 24  1   12 25  1
12 26  1   12 27  1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1    9 11  1   10 11  1   11 11  1   12 11  1   13 11  1
14 11  1    8  8  1    9  8  1   10  8  1   11  8  1   12  8  1
13  8  1   14  8  1   16 11  1   17 11  1   18 11  1   16  8  1
17  8  1   18  8  1   22  6  1   22  7  1   22  8  1   22  9  1
22 10  1   22 11  1   22 12  1   22 13  1   22 14  1   22 15  1
22 16  1   22 17  1   22 18  1   22 19  1   22 20  1   22 21  1
22 22  1   22 23  1   22 24  1   22 25  1   22 26  1   22 27  1
11  1  1   11  2  1   11  3  1   11  4  1   11  5  1   11  6  1
11  7  1   11  8  1   11  9  1   11 10  1   11 11  1   11 12  1
11 13  1   11 14  1   11 15  1   11 16  1   11 17  1   11 18  1
11 19  1   11 20  1   11 21  1   11 22  1   11 23  1   11 24  1
11 25  1   11 26  1   11 27  1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
22 12  1   22 13  1   22 14  1   22 15  1   22 16  1   22 17  1
```

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22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.633530E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.633530E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
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 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
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5.176014E+02					
6.014737E+01	2.346714E+02	2.935733E+02	3.132073E+02	3.184430E+02	3.196646E+02
3.201010E+02	3.205704E+02	3.210399E+02	3.211446E+02	3.211656E+02	3.211865E+02
3.212912E+02	3.217607E+02	3.224920E+02	3.237137E+02	3.289057E+02	3.340978E+02
3.356685E+02	3.388362E+02	3.417420E+02	3.422656E+02	3.428764E+02	3.477631E+02
3.522134E+02	3.526497E+02	3.538714E+02	3.591071E+02	3.787411E+02	4.376429E+02
6.121671E+02					
9.064270E+01	2.651668E+02	3.240687E+02	3.437026E+02	3.489384E+02	3.501600E+02
3.505963E+02	3.510658E+02	3.515353E+02	3.516400E+02	3.516609E+02	3.516819E+02
3.517866E+02	3.522561E+02	3.529873E+02	3.542090E+02	3.594011E+02	3.645932E+02
3.661639E+02	3.693315E+02	3.722373E+02	3.727609E+02	3.733717E+02	3.782584E+02
3.827088E+02	3.831451E+02	3.843668E+02	3.896025E+02	4.092365E+02	4.681383E+02
6.426624E+02					
9.656680E+01	2.710909E+02	3.299928E+02	3.496267E+02	3.548625E+02	3.560841E+02
3.565204E+02	3.569899E+02	3.574594E+02	3.575641E+02	3.575851E+02	3.576060E+02
3.577107E+02	3.581802E+02	3.589114E+02	3.601331E+02	3.653252E+02	3.705173E+02
3.720880E+02	3.752556E+02	3.781614E+02	3.786850E+02	3.792958E+02	3.841825E+02
3.886329E+02	3.890692E+02	3.902909E+02	3.955266E+02	4.151606E+02	4.740624E+02
6.485865E+02					
9.768167E+01	2.722057E+02	3.311076E+02	3.507415E+02	3.559773E+02	3.571989E+02
3.576353E+02	3.581047E+02	3.585742E+02	3.586789E+02	3.586999E+02	3.587208E+02
3.588255E+02	3.592950E+02	3.600263E+02	3.612480E+02	3.664400E+02	3.716321E+02
3.732029E+02	3.763705E+02	3.792763E+02	3.797998E+02	3.804107E+02	3.852974E+02
3.897477E+02	3.901840E+02	3.914057E+02	3.966414E+02	4.162754E+02	4.751772E+02
6.497014E+02					
9.903186E+01	2.735559E+02	3.324578E+02	3.520918E+02	3.573275E+02	3.585491E+02
3.589854E+02	3.594549E+02	3.599244E+02	3.600291E+02	3.600501E+02	3.600710E+02
3.601757E+02	3.606452E+02	3.613765E+02	3.625981E+02	3.677902E+02	3.729823E+02
3.745530E+02	3.777206E+02	3.806265E+02	3.811501E+02	3.817609E+02	3.866476E+02
3.910979E+02	3.915342E+02	3.927559E+02	3.979916E+02	4.176256E+02	4.765274E+02
6.510515E+02					
1.003524E+02	2.748765E+02	3.337784E+02	3.534124E+02	3.586481E+02	3.598698E+02
3.603061E+02	3.607755E+02	3.612450E+02	3.613497E+02	3.613707E+02	3.613916E+02
3.614963E+02	3.619658E+02	3.626971E+02	3.639187E+02	3.691108E+02	3.743029E+02
3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
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3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
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3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
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6.571052E+02					
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3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
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6.663888E+02					
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
  1  20   1   T   F    8.520000E+05    0.000000E+00
 31  20   1   T   F    8.520000E+05    0.000000E+00
  1  22   1   T   F    9.000000E+05    0.000000E+00
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  3  27   1   T   T   1.013250E+05   2.000000E-01
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  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
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 14  27   1   T   T   1.013250E+05   2.000000E-01
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 16  27   1   T   T   1.013250E+05   2.000000E-01
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 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 1.590225E+07  1.590225E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.590225E+07
 1.590225E+07
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 1.560060E+07
 1.787447E+07  1.577290E+07  1.506362E+07  1.482719E+07  1.476415E+07
 1.474944E+07  1.474418E+07  1.473853E+07  1.473288E+07  1.473161E+07
 1.473136E+07  1.473111E+07  1.472985E+07  1.472420E+07  1.471539E+07
 1.470068E+07  1.463816E+07  1.457564E+07  1.455672E+07  1.451858E+07
 1.448359E+07  1.447728E+07  1.446993E+07  1.441108E+07  1.435749E+07
 1.435224E+07  1.433753E+07  1.427448E+07  1.403806E+07  1.332878E+07
 1.122721E+07
 1.673574E+07  1.463417E+07  1.392489E+07  1.368846E+07  1.362542E+07
 1.361071E+07  1.360545E+07  1.359980E+07  1.359415E+07  1.359289E+07
 1.359263E+07  1.359238E+07  1.359112E+07  1.358547E+07  1.357666E+07
 1.356195E+07  1.349943E+07  1.343691E+07  1.341799E+07  1.337985E+07
 1.334486E+07  1.333855E+07  1.333120E+07  1.327235E+07  1.321876E+07
 1.321351E+07  1.319880E+07  1.313575E+07  1.289933E+07  1.219005E+07
 1.008848E+07
 1.636852E+07  1.426695E+07  1.355768E+07  1.332125E+07  1.325820E+07
 1.324349E+07  1.323824E+07  1.323258E+07  1.322693E+07  1.322567E+07
 1.322542E+07  1.322516E+07  1.322390E+07  1.321825E+07  1.320945E+07
 1.319473E+07  1.313221E+07  1.306969E+07  1.305078E+07  1.301263E+07
 1.297764E+07  1.297134E+07  1.296398E+07  1.290514E+07  1.285155E+07
 1.284629E+07  1.283158E+07  1.276854E+07  1.253211E+07  1.182283E+07
 9.721264E+06
 1.629718E+07  1.419562E+07  1.348634E+07  1.324991E+07  1.318687E+07
 1.317215E+07  1.316690E+07  1.316125E+07  1.315559E+07  1.315433E+07
 1.315408E+07  1.315383E+07  1.315257E+07  1.314691E+07  1.313811E+07
 1.312340E+07  1.306088E+07  1.299835E+07  1.297944E+07  1.294130E+07
 1.290631E+07  1.013250E+05  1.289265E+07  1.283380E+07  1.278021E+07
 1.277496E+07  1.276025E+07  1.269720E+07  1.246077E+07  1.175150E+07
 9.649928E+06
 1.628376E+07  1.418219E+07  1.347291E+07  1.323649E+07  1.317344E+07
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1.315873E+07	1.315348E+07	1.314782E+07	1.314217E+07	1.314091E+07
1.314066E+07	1.314040E+07	1.313914E+07	1.313349E+07	1.312468E+07
1.310997E+07	1.304745E+07	1.298493E+07	1.296602E+07	1.292787E+07
1.289288E+07	1.013250E+05	1.287922E+07	1.282038E+07	1.276679E+07
1.276153E+07	1.274682E+07	1.268378E+07	1.244735E+07	1.173807E+07
9.636503E+06				
1.626750E+07	1.416594E+07	1.345666E+07	1.322023E+07	1.315718E+07
1.314247E+07	1.313722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.275053E+07
1.274528E+07	1.273056E+07	1.266752E+07	1.243109E+07	1.172181E+07
9.620245E+06				
1.625160E+07	1.415003E+07	1.344075E+07	1.320433E+07	1.314128E+07
1.312657E+07	1.312132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.273463E+07
1.272937E+07	1.271466E+07	1.265161E+07	1.241519E+07	1.170591E+07
9.604342E+06				
1.623570E+07	1.413413E+07	1.342485E+07	1.318843E+07	1.312538E+07
1.311067E+07	1.310541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.271872E+07
1.271347E+07	1.269876E+07	1.263571E+07	1.239929E+07	1.169001E+07
9.588441E+06				
1.621199E+07	1.411042E+07	1.340114E+07	1.316472E+07	1.310167E+07
1.308696E+07	1.308170E+07	1.307605E+07	1.307040E+07	1.306914E+07
1.306888E+07	1.306863E+07	1.306737E+07	1.306172E+07	1.305291E+07
1.303820E+07	1.297568E+07	1.291316E+07	1.289424E+07	1.285610E+07
1.282111E+07	1.013250E+05	1.280745E+07	1.274860E+07	1.269502E+07
1.268976E+07	1.267505E+07	1.261200E+07	1.237558E+07	1.166630E+07
9.564732E+06				
1.619460E+07	1.409304E+07	1.338376E+07	1.314733E+07	1.308429E+07
1.306957E+07	1.306432E+07	1.305867E+07	1.305301E+07	1.305175E+07
1.305150E+07	1.305125E+07	1.304999E+07	1.304433E+07	1.303553E+07
1.302082E+07	1.295830E+07	1.289577E+07	1.287686E+07	1.283872E+07
1.280373E+07	1.013250E+05	1.279007E+07	1.273122E+07	1.267763E+07
1.267238E+07	1.265767E+07	1.259462E+07	1.235819E+07	1.164891E+07
9.547348E+06				
1.613844E+07	1.403687E+07	1.332759E+07	1.309117E+07	1.302812E+07
1.301341E+07	1.300815E+07	1.300250E+07	1.299685E+07	1.299559E+07
1.299533E+07	1.299508E+07	1.299382E+07	1.298817E+07	1.297936E+07
1.296465E+07	1.290213E+07	1.283961E+07	1.282069E+07	1.278255E+07
1.274756E+07	1.013250E+05	1.273390E+07	1.267506E+07	1.262147E+07
1.261621E+07	1.260150E+07	1.253845E+07	1.230203E+07	1.159275E+07
9.491182E+06				
1.608281E+07	1.398125E+07	1.327197E+07	1.303554E+07	1.297250E+07
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1.290903E+07	1.284651E+07	1.278398E+07	1.276507E+07	1.272693E+07
1.269194E+07	1.013250E+05	1.267828E+07	1.261943E+07	1.256584E+07
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9.435558E+06				
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1.257153E+07	1.257128E+07	1.257002E+07	1.256437E+07	1.255556E+07
1.254085E+07	1.247833E+07	1.241580E+07	1.239689E+07	1.235875E+07
1.232376E+07	1.013250E+05	1.231010E+07	1.225125E+07	1.219766E+07
1.219241E+07	1.217770E+07	1.211465E+07	1.187822E+07	1.116895E+07
9.067379E+06				
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1.126817E+07	1.126292E+07	1.125726E+07	1.125161E+07	1.125035E+07
1.125010E+07	1.124984E+07	1.124858E+07	1.124293E+07	1.123412E+07
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1.100232E+07	1.013250E+05	1.098866E+07	1.092982E+07	1.087623E+07
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7.745944E+06				
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9.341415E+06	9.341163E+06	9.339902E+06	9.334249E+06	9.325443E+06
9.310732E+06	9.248211E+06	9.185689E+06	9.166775E+06	9.128632E+06
9.093641E+06	1.013250E+05	9.079980E+06	9.021136E+06	8.967546E+06
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5.837264E+06				

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 1.013250E+05
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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1.000000E+00				
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
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  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
  0.000000E+00
 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 31*0.000000E+00
 31*0.000000E+00
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 31*0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT    FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT    FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
```

```
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
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11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
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11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
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 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
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22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
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  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
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22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
   8      CAVITY_2
   9      CAVITY_3
  10      CAVITY_4
  11      IMPERM_Z
  12      CASTILER
  13      WAS_AREA
  14      REPOSIT
  15      DRZ_1
  16      UNNAMED
  17      CULEBRA
  18      TAMARISK
  19      MAGENTA
  20      FORTYNIN
  21      DEWYLAKE
  22      SANTAROS
  23      BACKFILL
  24      EXP_AREA
  25      SHFT_B_1
  26      SHFT_B_2
  27      SHFT_L_1
  28      SHFT_L_2
  29      SHFT_U_1
  30      SHFT_U_2
  31      SHFT_LS1
  32      SHFT_LS2
  33      SHFT_US1
  34      SHFT_US2
  35      PAN_S_1
  36      PAN_S_2
  37      BOREHOLE
  38      TRANS_1
  39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
  7  8
 13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
```

```
1.013250E+05
SOWASTEIC
0.000000E+00
0.000000E+00
0.000000E+00
0.250000E+00
0.200000E+00
PRESDRZ

NBORERESET
 0
# LAMBDA       SOR          SGR
1 7.541000E+00 7.480000E-02 1.474000E-01
2 7.541000E+00 0.000000E+00 0.000000E+00
3 7.541000E+00 0.000000E+00 0.000000E+00
4 4.776000E+00 3.328000E-01 1.688000E-01
5 4.776000E+00 3.328000E-01 1.688000E-01
6 4.776000E+00 3.328000E-01 1.688000E-01
7 7.000000E-01 0.000000E+00 0.000000E+00
8 7.000000E-01 0.000000E+00 0.000000E+00
9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 5.266000E-01 2.622000E-01 2.116000E-03
14 5.266000E-01 2.622000E-01 2.116000E-03
15 7.541000E+00 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 7.541000E+00 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
# SBMIN        PBMIN        PCMAX          PCT_A         PCT_EXP     KRP KPC KTP
1 7.854000E-02 1.013250E+05 1.000000E+08 2.810000E+06  0.000000E+00  4  2  0
2 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
3 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
4 3.494400E-01 1.013250E+05 1.000000E+08 3.104560E-01 -3.460000E-01  4  2  0
5 3.494400E-01 1.013250E+05 1.000000E+08 3.104560E-01 -3.460000E-01  4  2  0
6 3.494400E-01 1.013250E+05 1.000000E+08 3.104560E-01 -3.460000E-01  4  2  0
7 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
8 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
9 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
10 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
11 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
12 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4  2  0
13 2.753100E-01 1.013250E+05 1.000000E+08 2.806002E-01 -3.460000E-01  4  4  0
14 2.753100E-01 1.013250E+05 1.000000E+08 2.806002E-01 -3.460000E-01  4  4  0
15 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
16 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
17 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4  2  0
18 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
19 2.100000E-01 1.013250E+05 1.000000E+08 5.600000E-01 -3.460000E-01  4  2  0
20 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
21 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
22 2.100000E-01 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
23 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
24 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00  0.000000E+00  4  1  0
```

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25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  1.970462E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  1.970462E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY      COMPRES
 1 5.011881E-21 5.011881E-21 5.011881E-21  7.702000E-03  1.558830E-08
 2 1.000000E-15 1.000000E-15 1.000000E-15  7.702000E-03  1.075723E-07
 3 1.000000E-15 1.000000E-15 1.000000E-15  7.702000E-03  1.075723E-07
 4 1.949849E-20 1.949849E-20 1.949849E-20  1.372000E-03  1.498906E-08
 5 1.949849E-20 1.949849E-20 1.949849E-20  1.372000E-03  1.498906E-08
 6 1.949849E-20 1.949849E-20 1.949849E-20  1.372000E-03  1.498906E-08
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  7.702000E-03  1.075723E-07
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 9.332528E-17 9.332528E-17 9.332528E-17  5.000000E-02  2.000000E-08
33 9.332528E-17 9.332528E-17 9.332528E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 4.073800E-14 4.073800E-14 4.073800E-14  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  7.702000E-03  1.075723E-07
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF      FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01    1    1    0
 5 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01    1    1    0
 6 1.530000E+06 2.500000E+06 1.137200E-02 1.178836E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
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 2.9600E+01 1.2300E+03    1    0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  1.2897E-06   0.0000E+00   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  4.9079E-04   0.0000E+00
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  9.8660E-01  0.0000E+00
  9.8660E-01  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.2638E+00  -1.4724E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03    3.40000E+03    4.70000E+03    1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03    2.37000E+03    3.05000E+03    2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
  0.0000E+00  T  F  1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
```

```
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V019.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 3.1557E+11
ASCII PRINT FLAGS
1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
BINARY PRINT FLAGS
1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
0 0 0 0 0  0 0
HISTORY VARIABLE OUTPUT
   8
   1    4    NAME=BRINE PRESSURE
11  8  1   17  8  1   11  1  1   22  6  1
   2    1    NAME=GAS PRESSURE
22 12  1
  10    6    NAME=GAS DENSITY
 7  6  1    7 12  1    7 14  1   25  6  1   25 12  1   25 14  1
  18   30    NAME=GAS SATURATION
 8  8  1    9  8  1   10  8  1   11  8  1   12  8  1   13  8  1
14  8  1    8  9  1    9  9  1   10  9  1   11  9  1   12  9  1
13  9  1   14  9  1    8 10  1    9 10  1   10 10  1   11 10  1
12 10  1   13 10  1   14 10  1   16  8  1   17  8  1   18  8  1
16  9  1   17  9  1   18  9  1   16 10  1   17 10  1   18 10  1
  31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6  1    3 12  1    3 14  1    3 19  1    3 20  1    3 21  1
 3 22  1    3 23  1    3 24  1    3 25  1    3 26  1    3 27  1
30  6  1   30 12  1   30 14  1   30 19  1   30 20  1   30 21  1
30 22  1   30 23  1   30 24  1   30 25  1   30 26  1   30 27  1
 8  6  1    8 12  1    8 14  1   25  6  1   25 12  1   25 14  1
16  8  1   16  9  1   16 10  1   19  8  1   19  9  1   19 10  1
 8  8  1    8  9  1    8 10  1   15  8  1   15  9  1   15 10  1
22  6  1   22  7  1   22  8  1   22  9  1   22 10  1   22 11  1
```

```
22 12   1    22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1    22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1    22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1     3 12   1     3 14   1     3 19   1     3 20   1     3 21   1
 3 22   1     3 23   1     3 24   1     3 25   1     3 26   1     3 27   1
30  6   1    30 12   1    30 14   1    30 19   1    30 20   1    30 21   1
30 22   1    30 23   1    30 24   1    30 25   1    30 26   1    30 27   1
 8  6   1     8 12   1     8 14   1    25  6   1    25 12   1    25 14   1
16  8   1    16  9   1    16 10   1    19  8   1    19  9   1    19 10   1
 8  8   1     8  9   1     8 10   1    15  8   1    15  9   1    15 10   1
22  6   1    22  7   1    22  8   1    22  9   1    22 10   1    22 11   1
22 12   1    22 13   1    22 14   1    22 15   1    22 16   1    22 17   1
22 18   1    22 19   1    22 20   1    22 21   1    22 22   1    22 23   1
22 24   1    22 25   1    22 26   1    22 27   1    23  6   1    23  7   1
23  8   1    23  9   1    23 10   1    23 11   1    23 12   1    23 13   1
23 14   1    23 15   1    23 16   1    23 17   1    23 18   1    23 19   1
23 20   1    23 21   1    23 22   1    23 23   1    23 24   1    23 25   1
23 26   1    23 27   1    11  1   1    11  2   1    11  3   1    11  4   1
11  5   1    11  6   1    11  7   1    11  8   1    11  9   1    11 10   1
11 11   1    11 12   1    11 13   1    11 14   1    11 15   1    11 16   1
11 17   1    11 18   1    11 19   1    11 20   1    11 21   1    11 22   1
11 23   1    11 24   1    11 25   1    11 26   1    11 27   1    12  1   1
12  2   1    12  3   1    12  4   1    12  5   1    12  6   1    12  7   1
12  8   1    12  9   1    12 10   1    12 11   1    12 12   1    12 13   1
12 14   1    12 15   1    12 16   1    12 17   1    12 18   1    12 19   1
12 20   1    12 21   1    12 22   1    12 23   1    12 24   1    12 25   1
12 26   1    12 27   1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11   1     9 11   1    10 11   1    11 11   1    12 11   1    13 11   1
14 11   1     8  8   1     9  8   1    10  8   1    11  8   1    12  8   1
13  8   1    14  8   1    16 11   1    17 11   1    18 11   1    16  8   1
17  8   1    18  8   1    22  6   1    22  7   1    22  8   1    22  9   1
22 10   1    22 11   1    22 12   1    22 13   1    22 14   1    22 15   1
22 16   1    22 17   1    22 18   1    22 19   1    22 20   1    22 21   1
22 22   1    22 23   1    22 24   1    22 25   1    22 26   1    22 27   1
11  1   1    11  2   1    11  3   1    11  4   1    11  5   1    11  6   1
11  7   1    11  8   1    11  9   1    11 10   1    11 11   1    11 12   1
11 13   1    11 14   1    11 15   1    11 16   1    11 17   1    11 18   1
11 19   1    11 20   1    11 21   1    11 22   1    11 23   1    11 24   1
11 25   1    11 26   1    11 27   1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
```

```
   1    2    1    7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  3.213459E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  3.213459E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
 3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
 3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
 3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
 3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
 3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
 3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
 3.732029E+02  3.763705E+02  3.792763E+02  3.797998E+02  3.804107E+02  3.852974E+02
 3.897477E+02  3.901840E+02  3.914057E+02  3.966414E+02  4.162754E+02  4.751772E+02
 6.497014E+02
 9.903186E+01  2.735559E+02  3.324578E+02  3.520918E+02  3.573275E+02  3.585491E+02
 3.589854E+02  3.594549E+02  3.599244E+02  3.600291E+02  3.600501E+02  3.600710E+02
 3.601757E+02  3.606452E+02  3.613765E+02  3.625981E+02  3.677902E+02  3.729823E+02
 3.745530E+02  3.777206E+02  3.806265E+02  3.811501E+02  3.817609E+02  3.866476E+02
 3.910979E+02  3.915342E+02  3.927559E+02  3.979916E+02  4.176256E+02  4.765274E+02
 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
 3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
 3.614963E+02  3.619658E+02  3.626971E+02  3.639187E+02  3.691108E+02  3.743029E+02
 3.758736E+02  3.790413E+02  3.819471E+02  3.824706E+02  3.830815E+02  3.879681E+02
 3.924185E+02  3.928548E+02  3.940765E+02  3.993122E+02  4.189462E+02  4.778481E+02
 6.523721E+02
```

1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
1.036419E+02	2.781660E+02	3.370679E+02	3.567019E+02	3.619376E+02	3.631592E+02
3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
1.050855E+02	2.796096E+02	3.385115E+02	3.581454E+02	3.633812E+02	3.646028E+02
3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
1.097498E+02	2.842739E+02	3.431758E+02	3.628097E+02	3.680454E+02	3.692671E+02
3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
3.708937E+02	3.713632E+02	3.720945E+02	3.733161E+02	3.785082E+02	3.837003E+02
3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
1.143691E+02	2.888932E+02	3.477951E+02	3.674290E+02	3.726647E+02	3.738864E+02
3.743227E+02	3.747922E+02	3.752617E+02	3.753664E+02	3.753873E+02	3.754083E+02
3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
4.064352E+02	4.068715E+02	4.080932E+02	4.133289E+02	4.329628E+02	4.918647E+02
6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
4.048981E+02	4.053676E+02	4.058370E+02	4.059417E+02	4.059627E+02	4.059836E+02
4.060883E+02	4.065578E+02	4.072891E+02	4.085107E+02	4.137029E+02	4.188949E+02
4.204656E+02	4.236333E+02	4.265391E+02	4.270627E+02	4.276735E+02	4.325602E+02
4.370105E+02	4.374468E+02	4.386685E+02	4.439042E+02	4.635382E+02	5.224401E+02
6.969641E+02					
2.546828E+02	4.292068E+02	4.881087E+02	5.077427E+02	5.129784E+02	5.142001E+02
5.146364E+02	5.151058E+02	5.155753E+02	5.156801E+02	5.157010E+02	5.157219E+02
5.158267E+02	5.162961E+02	5.170274E+02	5.182490E+02	5.234412E+02	5.286332E+02
5.302040E+02	5.333716E+02	5.362774E+02	5.368010E+02	5.374118E+02	5.422985E+02
5.467488E+02	5.471852E+02	5.484068E+02	5.536425E+02	5.732765E+02	6.321783E+02
8.067025E+02					
4.131886E+02	5.877127E+02	6.466146E+02	6.662485E+02	6.714843E+02	6.727059E+02
6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
6.743325E+02	6.748020E+02	6.755333E+02	6.767549E+02	6.819470E+02	6.871391E+02
6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
4.949812E+02	6.695053E+02	7.284072E+02	7.480411E+02	7.532769E+02	7.544985E+02
7.549348E+02	7.554043E+02	7.558738E+02	7.559785E+02	7.559995E+02	7.560204E+02
7.561251E+02	7.565945E+02	7.573259E+02	7.585475E+02	7.637396E+02	7.689317E+02
7.705024E+02	7.736700E+02	7.765759E+02	7.770994E+02	7.777103E+02	7.825969E+02
7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.976363E+02	7.977001E+02	7.977001E+02
7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02	7.977001E+02
7.977001E+02					
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.194830E+02	8.195501E+02	8.195501E+02
8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02	8.195501E+02
8.195501E+02					
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.357305E+02	8.358001E+02	8.358001E+02
8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02	8.358001E+02
8.358001E+02					
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02	8.524501E+02
8.524501E+02	8.524501E+02	8.524501E+02	8.523779E+02	8.524501E+02	8.524501E+02

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8.524501E+02
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8.653501E+02
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9.270001E+02
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
T     35
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
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  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
  8  27   1   T   T   1.013250E+05   2.000000E-01
  9  27   1   T   T   1.013250E+05   2.000000E-01
 10  27   1   T   T   1.013250E+05   2.000000E-01
 11  27   1   T   T   1.013250E+05   2.000000E-01
 12  27   1   T   T   1.013250E+05   2.000000E-01
 13  27   1   T   T   1.013250E+05   2.000000E-01
 14  27   1   T   T   1.013250E+05   2.000000E-01
 15  27   1   T   T   1.013250E+05   2.000000E-01
 16  27   1   T   T   1.013250E+05   2.000000E-01
 17  27   1   T   T   1.013250E+05   2.000000E-01
 18  27   1   T   T   1.013250E+05   2.000000E-01
 19  27   1   T   T   1.013250E+05   2.000000E-01
 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 1.525225E+07  1.525225E+07  1.270000E+07  1.270000E+07  1.270000E+07
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 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
 1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07  1.270000E+07
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1.525225E+07
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9.438480E+06
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1.240150E+07 1.240125E+07 1.239999E+07 1.239433E+07 1.238553E+07

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8.897348E+06				
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1.236341E+07	1.235815E+07	1.235250E+07	1.234685E+07	1.234559E+07
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8.841182E+06				
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1.230778E+07	1.230253E+07	1.229688E+07	1.229122E+07	1.228996E+07
1.228971E+07	1.228946E+07	1.228820E+07	1.228254E+07	1.227374E+07
1.225903E+07	1.219651E+07	1.213398E+07	1.211507E+07	1.207693E+07
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8.785558E+06				
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1.167376E+07	1.013250E+05	1.166010E+07	1.160125E+07	1.154766E+07
1.154241E+07	1.152770E+07	1.146465E+07	1.122822E+07	1.051895E+07
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1.056941E+07	1.050689E+07	1.044437E+07	1.042546E+07	1.038731E+07
1.035232E+07	1.013250E+05	1.033866E+07	1.027982E+07	1.022623E+07
1.022097E+07	1.020626E+07	1.014322E+07	9.906788E+06	9.197510E+06
7.095944E+06				
1.183452E+07	9.732952E+06	9.023673E+06	8.787247E+06	8.724200E+06
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8.691415E+06	8.691163E+06	8.689902E+06	8.684249E+06	8.675443E+06
8.660732E+06	8.598211E+06	8.535689E+06	8.516775E+06	8.478632E+06
8.443641E+06	1.013250E+05	8.429980E+06	8.371136E+06	8.317547E+06
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5.187264E+06				
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7.724567E+06	7.719314E+06	7.713661E+06	7.708007E+06	7.706746E+06
7.706493E+06	7.706241E+06	7.704981E+06	7.699328E+06	7.690522E+06
7.675811E+06	7.613289E+06	7.550768E+06	7.531853E+06	7.493710E+06
7.458719E+06	1.013250E+05	7.445059E+06	7.386215E+06	7.332625E+06
7.327371E+06	7.312660E+06	7.249613E+06	7.013187E+06	6.303909E+06
4.202342E+06				
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	1.013250E+05	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06	2.296527E+06
2.296527E+06				
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	1.013250E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05	8.520000E+05
8.520000E+05				
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.013250E+05	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06	1.837738E+06
1.837738E+06				
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	1.013250E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05	9.000000E+05
9.000000E+05				
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06
1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06	1.481906E+06

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GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
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 1.000000E+00  2.500000E-01  1.000000E+00  1.000000E+00  1.000000E+00
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 2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
 2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
 2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
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 2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01  2.000000E-01
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
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0.000000E+00	0.000000E+00	9.220315E+01	9.220315E+01	9.220315E+01
9.220315E+01	9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00
9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00				
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	9.220315E+01	9.220315E+01	9.220315E+01
9.220315E+01	9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00
9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00				
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	9.220315E+01	9.220315E+01	9.220315E+01
9.220315E+01	9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00
9.220315E+01	9.220315E+01	9.220315E+01	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00
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 0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00  0.000000E+00
 0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
31*0.000000E+00
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 31*0.000000E+00
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 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENCE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T      1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
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  1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
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  1  1  1  1  1
  5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
  6  6  6  6  6
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 11 11 11 11 11
  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
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  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
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  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
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  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
  5  5  5  5  5
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  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
  6  6  6  6  6
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 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
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 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
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 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
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 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
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 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
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22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
   8      CAVITY_2
   9      CAVITY_3
  10      CAVITY_4
  11      IMPERM_Z
  12      CASTILER
  13      WAS_AREA
  14      REPOSIT
  15      DRZ_1
  16      UNNAMED
  17      CULEBRA
  18      TAMARISK
  19      MAGENTA
  20      FORTYNIN
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 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 4.796000E-01 1.975000E-01 3.142000E-01
 2 4.796000E-01 0.000000E+00 0.000000E+00
 3 4.796000E-01 0.000000E+00 0.000000E+00
 4 4.775000E-01 3.726000E-01 1.612000E-01
 5 4.775000E-01 3.726000E-01 1.612000E-01
 6 4.775000E-01 3.726000E-01 1.612000E-01
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 8.255000E+00 3.416000E-01 7.531000E-02
14 8.255000E+00 3.416000E-01 7.531000E-02
15 4.796000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
```

26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	4.796000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	2.073750E-01	1.013250E+05	1.000000E+08	2.219000E+06	0.000000E+00	1	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
4	3.912300E-01	1.013250E+05	1.000000E+08	3.126079E+00	-3.460000E-01	1	2	0
5	3.912300E-01	1.013250E+05	1.000000E+08	3.126079E+00	-3.460000E-01	1	2	0
6	3.912300E-01	1.013250E+05	1.000000E+08	3.126079E+00	-3.460000E-01	1	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.586800E-01	1.013250E+05	1.000000E+08	4.721587E-01	-3.460000E-01	4	4	0
14	3.586800E-01	1.013250E+05	1.000000E+08	4.721587E-01	-3.460000E-01	4	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	5.916266E+05	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	5.916266E+05	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	1	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	5.495406E-22	5.495406E-22	5.495406E-22	2.851000E-02	7.921747E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	2.851000E-02	2.887829E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	2.851000E-02	2.887829E-08
4	6.025605E-19	6.025605E-19	6.025605E-19	2.135000E-02	3.638652E-08
5	6.025605E-19	6.025605E-19	6.025605E-19	2.135000E-02	3.638652E-08
6	6.025605E-19	6.025605E-19	6.025605E-19	2.135000E-02	3.638652E-08
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
9	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
10	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
11	0.000000E+00	0.000000E+00	0.000000E+00	5.000000E-03	0.000000E+00
12	1.330453E-11	1.330453E-11	1.330453E-11	5.200000E-03	1.923077E-07
13	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
14	5.584699E-12	5.584699E-12	5.584699E-12	8.810400E-01	1.203124E-09
15	1.000000E-15	1.000000E-15	1.000000E-15	2.851000E-02	2.887829E-08
16	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
17	2.648502E-13	2.648502E-13	2.648502E-13	1.460000E-01	1.417160E-09
18	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
19	1.096478E-16	1.096478E-16	1.096478E-16	9.000000E-02	2.199962E-09
20	0.000000E+00	0.000000E+00	0.000000E+00	2.000000E-01	0.000000E+00
21	9.332549E-16	9.332549E-16	9.332549E-16	1.500000E-01	6.666667E-08

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22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 3.890453E-18 3.890453E-18 3.890453E-18  5.000000E-02  2.000000E-08
33 3.890453E-18 3.890453E-18 3.890453E-18  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 4.897784E-13 4.897784E-13 4.897784E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.851000E-02  2.887829E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI    DELTA_PF      FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
 4 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01    1    1    0
 5 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01    1    1    0
 6 2.460000E+06 2.500000E+06 3.135000E-02 7.205061E+01    1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  3.00150E+02  1.01320E+05
 SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
 2.9600E+01 1.2300E+03    1    0      2.5000E-10 58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
 1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
 1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
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 0.0000E+00   4.7213E-07   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0000E+00   1.0000E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 6.0990E-01  0.0000E+00
 6.0990E-01  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.1120E+00  -1.7759E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
  2
#  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
1   13          4
2   14          4
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST7_V020.INP

```
1995 SIDEBAR: BRAGFLO E01 GAS GENERATION CALCULATION
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   31   27    1
TSTART,   TMAX,       MAXSTEPS
 -1.5779E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   3
  0.0000E+00   8.6400E+02
  3.1666E+09   8.6400E+02
  3.1666E+10   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  20
```

```
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 1  1 0 0 1 0  0 0 1 0 1  0 0 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1     4     NAME=BRINE PRESSURE
11  8   1   17  8   1   11  1   1   22  6   1
    2     1     NAME=GAS PRESSURE
22 12   1
   10     6     NAME=GAS DENSITY
 7  6   1    7 12   1    7 14   1   25  6   1   25 12   1   25 14   1
   18    30     NAME=GAS SATURATION
 8  8   1    9  8   1   10  8   1   11  8   1   12  8   1   13  8   1
14  8   1    8  9   1    9  9   1   10  9   1   11  9   1   12  9   1
13  9   1   14  9   1    8 10   1    9 10   1   10 10   1   11 10   1
12 10   1   13 10   1   14 10   1   16  8   1   17  8   1   18  8   1
16  9   1   17  9   1   18  9   1   16 10   1   17 10   1   18 10   1
   31   140     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3  6   1    3 12   1    3 14   1    3 19   1    3 20   1    3 21   1
 3 22   1    3 23   1    3 24   1    3 25   1    3 26   1    3 27   1
30  6   1   30 12   1   30 14   1   30 19   1   30 20   1   30 21   1
30 22   1   30 23   1   30 24   1   30 25   1   30 26   1   30 27   1
 8  6   1    8 12   1    8 14   1   25  6   1   25 12   1   25 14   1
16  8   1   16  9   1   16 10   1   19  8   1   19  9   1   19 10   1
 8  8   1    8  9   1    8 10   1   15  8   1   15  9   1   15 10   1
22  6   1   22  7   1   22  8   1   22  9   1   22 10   1   22 11   1
22 12   1   22 13   1   22 14   1   22 15   1   22 16   1   22 17   1
22 18   1   22 19   1   22 20   1   22 21   1   22 22   1   22 23   1
22 24   1   22 25   1   22 26   1   22 27   1   23  6   1   23  7   1
23  8   1   23  9   1   23 10   1   23 11   1   23 12   1   23 13   1
23 14   1   23 15   1   23 16   1   23 17   1   23 18   1   23 19   1
23 20   1   23 21   1   23 22   1   23 23   1   23 24   1   23 25   1
23 26   1   23 27   1   11  1   1   11  2   1   11  3   1   11  4   1
11  5   1   11  6   1   11  7   1   11  8   1   11  9   1   11 10   1
11 11   1   11 12   1   11 13   1   11 14   1   11 15   1   11 16   1
11 17   1   11 18   1   11 19   1   11 20   1   11 21   1   11 22   1
11 23   1   11 24   1   11 25   1   11 26   1   11 27   1   12  1   1
12  2   1   12  3   1   12  4   1   12  5   1   12  6   1   12  7   1
12  8   1   12  9   1   12 10   1   12 11   1   12 12   1   12 13   1
12 14   1   12 15   1   12 16   1   12 17   1   12 18   1   12 19   1
12 20   1   12 21   1   12 22   1   12 23   1   12 24   1   12 25   1
12 26   1   12 27   1
   32    69     NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11   1    9 11   1   10 11   1   11 11   1   12 11   1   13 11   1
14 11   1    8  8   1    9  8   1   10  8   1   11  8   1   12  8   1
13  8   1   14  8   1   16 11   1   17 11   1   18 11   1   16  8   1
17  8   1   18  8   1   22  6   1   22  7   1   22  8   1   22  9   1
22 10   1   22 11   1   22 12   1   22 13   1   22 14   1   22 15   1
22 16   1   22 17   1   22 18   1   22 19   1   22 20   1   22 21   1
22 22   1   22 23   1   22 24   1   22 25   1   22 26   1   22 27   1
11  1   1   11  2   1   11  3   1   11  4   1   11  5   1   11  6   1
11  7   1   11  8   1   11  9   1   11 10   1   11 11   1   11 12   1
11 13   1   11 14   1   11 15   1   11 16   1   11 17   1   11 18   1
11 19   1   11 20   1   11 21   1   11 22   1   11 23   1   11 24   1
11 25   1   11 26   1   11 27   1
   34   140     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6   1    3 12   1    3 14   1    3 19   1    3 20   1    3 21   1
 3 22   1    3 23   1    3 24   1    3 25   1    3 26   1    3 27   1
30  6   1   30 12   1   30 14   1   30 19   1   30 20   1   30 21   1
30 22   1   30 23   1   30 24   1   30 25   1   30 26   1   30 27   1
 8  6   1    8 12   1    8 14   1   25  6   1   25 12   1   25 14   1
16  8   1   16  9   1   16 10   1   19  8   1   19  9   1   19 10   1
 8  8   1    8  9   1    8 10   1   15  8   1   15  9   1   15 10   1
```

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22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69     NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
   17    10     1
   25    12     1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1     2     1     7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.670202E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.670202E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
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2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
5.176014E+02
6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
6.121671E+02
9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
3.505963E+02  3.510658E+02  3.515353E+02  3.516400E+02  3.516609E+02  3.516819E+02
3.517866E+02  3.522561E+02  3.529873E+02  3.542090E+02  3.594011E+02  3.645932E+02
3.661639E+02  3.693315E+02  3.722373E+02  3.727609E+02  3.733717E+02  3.782584E+02
3.827088E+02  3.831451E+02  3.843668E+02  3.896025E+02  4.092365E+02  4.681383E+02
6.426624E+02
9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
6.485865E+02
9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
3.576353E+02  3.581047E+02  3.585742E+02  3.586789E+02  3.586999E+02  3.587208E+02
3.588255E+02  3.592950E+02  3.600263E+02  3.612480E+02  3.664400E+02  3.716321E+02
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6.497014E+02
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6.510515E+02
1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
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GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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 1.313340E+07  1.307088E+07  1.300835E+07  1.298944E+07  1.295130E+07
 1.291631E+07  1.013250E+05  1.290265E+07  1.284380E+07  1.279021E+07
 1.278496E+07  1.277025E+07  1.270720E+07  1.247077E+07  1.176150E+07
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9.659928E+06				
1.629376E+07	1.419219E+07	1.348291E+07	1.324649E+07	1.318344E+07
1.316873E+07	1.316348E+07	1.315782E+07	1.315217E+07	1.315091E+07
1.315066E+07	1.315040E+07	1.314914E+07	1.314349E+07	1.313468E+07
1.311997E+07	1.305745E+07	1.299493E+07	1.297602E+07	1.293787E+07
1.290288E+07	1.013250E+05	1.288922E+07	1.283038E+07	1.277679E+07
1.277153E+07	1.275682E+07	1.269378E+07	1.245735E+07	1.174807E+07
9.646503E+06				
1.627750E+07	1.417594E+07	1.346666E+07	1.323023E+07	1.316718E+07
1.315247E+07	1.314722E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.276053E+07
1.275528E+07	1.274056E+07	1.267752E+07	1.244109E+07	1.173181E+07
9.630245E+06				
1.626160E+07	1.416003E+07	1.345075E+07	1.321433E+07	1.315128E+07
1.313657E+07	1.313132E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.274463E+07
1.273937E+07	1.272466E+07	1.266161E+07	1.242519E+07	1.171591E+07
9.614342E+06				
1.624570E+07	1.414413E+07	1.343485E+07	1.319843E+07	1.313538E+07
1.312067E+07	1.311541E+07	1.013250E+05	1.013250E+05	1.013250E+05
1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05
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1.013250E+05	1.013250E+05	1.013250E+05	1.013250E+05	1.272872E+07
1.272347E+07	1.270876E+07	1.264571E+07	1.240929E+07	1.170001E+07
9.598441E+06				
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1.309696E+07	1.309170E+07	1.308605E+07	1.308040E+07	1.307914E+07
1.307888E+07	1.307863E+07	1.307737E+07	1.307172E+07	1.306291E+07
1.304820E+07	1.298568E+07	1.292316E+07	1.290424E+07	1.286610E+07
1.283111E+07	1.013250E+05	1.281745E+07	1.275860E+07	1.270502E+07
1.269976E+07	1.268505E+07	1.262200E+07	1.238558E+07	1.167630E+07
9.574732E+06				
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1.307957E+07	1.307432E+07	1.306867E+07	1.306301E+07	1.306175E+07
1.306150E+07	1.306125E+07	1.305999E+07	1.305433E+07	1.304553E+07
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9.557348E+06				
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9.501182E+06				
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9.445558E+06				
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9.077379E+06				
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7.755944E+06				
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9.320732E+06	9.258211E+06	9.195689E+06	9.176775E+06	9.138632E+06
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DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENCE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
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 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1  3  3  3  3  3  3  3  3  3  3  3  3  3  3 10  3  3  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 10  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 10  1  1  1  1
 1  1  1  1  1
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
11 11 11 11 11
 START TIME FOR MAP 2
```

```
 0.0000E+00
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
 1  1  1  1  1
 5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
 5  5  5  5  5
 1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 25 38 38  1  1
 1  1  1  1  1
 6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 25  6  6  6  6
 6  6  6  6  6
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 31  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 27  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 33  1  1  1  1
 1  1  1  1  1
16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 33 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 33 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 29 18 18 18 18
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19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 29 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 29 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 29 21 21 21 21
21 21 21 21 21
21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 29 21 21 21 21
21 21 21 21 21
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 29 22 22 22 22
22 22 22 22 22
 START TIME FOR MAP 3
 3.1557E+09
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
 1  1  1  1  1
 4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
 1  1  1  1  1
 1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
```

```
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
 16 16 16 16 16
 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
 17 17 17 17 17
 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
 18 18 18 18 18
 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
 19 19 19 19 19
 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
 20 20 20 20 20
 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
 21 21 21 21 21
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 21 21 21 21 21
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
 22 22 22 22 22
  START TIME FOR MAP 4
  3.1557E+10
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
 11 11 11 11 11
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 37 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
  1  1  1  1  1
  6  6  6  6  6  6  6  6  6  6 37  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
  6  6  6  6  6
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 32  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 28  1  1  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1 34  1  1  1  1
  1  1  1  1  1
```

```
16 16 16 16 16 16 16 16 16 16 37 16 16 16 16 16 16 16 16 16 16 34 16 16 16 16
16 16 16 16 16
17 17 17 17 17 17 17 17 17 17 37 17 17 17 17 17 17 17 17 17 17 34 17 17 17 17
17 17 17 17 17
18 18 18 18 18 18 18 18 18 18 37 18 18 18 18 18 18 18 18 18 18 30 18 18 18 18
18 18 18 18 18
19 19 19 19 19 19 19 19 19 19 37 19 19 19 19 19 19 19 19 19 19 30 19 19 19 19
19 19 19 19 19
20 20 20 20 20 20 20 20 20 20 37 20 20 20 20 20 20 20 20 20 20 30 20 20 20 20
20 20 20 20 20
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21
21 21 21 21 21 21 21 21 21 21 37 21 21 21 21 21 21 21 21 21 21 30 21 21 21 21
21 21 21 21 21
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
22 22 22 22 22 22 22 22 22 22 37 22 22 22 22 22 22 22 22 22 22 30 22 22 22 22
22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
   8      CAVITY_2
   9      CAVITY_3
  10      CAVITY_4
  11      IMPERM_Z
  12      CASTILER
  13      WAS_AREA
  14      REPOSIT
  15      DRZ_1
  16      UNNAMED
  17      CULEBRA
  18      TAMARISK
  19      MAGENTA
  20      FORTYNIN
  21      DEWYLAKE
  22      SANTAROS
  23      BACKFILL
  24      EXP_AREA
  25      SHFT_B_1
  26      SHFT_B_2
  27      SHFT_L_1
  28      SHFT_L_2
  29      SHFT_U_1
  30      SHFT_U_2
  31      SHFT_LS1
  32      SHFT_LS2
  33      SHFT_US1
  34      SHFT_US2
  35      PAN_S_1
  36      PAN_S_2
  37      BOREHOLE
  38      TRANS_1
  39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 14
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00     1
 POWASTEIC
 1.013250E+05
 1.013250E+05
```

```
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 7.765000E-01 4.809000E-01 7.919000E-02
 2 7.765000E-01 0.000000E+00 0.000000E+00
 3 7.765000E-01 0.000000E+00 0.000000E+00
 4 4.177000E+00 2.392000E-01 6.053000E-02
 5 4.177000E+00 2.392000E-01 6.053000E-02
 6 4.177000E+00 2.392000E-01 6.053000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
13 4.578000E+00 2.366000E-01 2.118000E-01
14 4.578000E+00 2.366000E-01 2.118000E-01
15 7.765000E-01 0.000000E+00 0.000000E+00
16 7.000000E-01 2.000000E-01 2.000000E-01
17 7.000000E-01 2.000000E-01 2.000000E-01
18 7.000000E-01 2.000000E-01 2.000000E-01
19 7.000000E-01 2.000000E-01 2.000000E-01
20 7.000000E-01 2.000000E-01 2.000000E-01
21 7.000000E-01 2.000000E-01 2.000000E-01
22 7.000000E-01 2.000000E-01 2.000000E-01
23 7.000000E-01 0.000000E+00 0.000000E+00
24 7.000000E-01 0.000000E+00 0.000000E+00
25 7.000000E-01 2.000000E-01 2.000000E-01
26 7.000000E-01 2.000000E-01 2.000000E-01
27 7.000000E-01 2.000000E-01 2.000000E-01
28 7.000000E-01 2.000000E-01 2.000000E-01
29 7.000000E-01 2.000000E-01 2.000000E-01
30 7.000000E-01 2.000000E-01 2.000000E-01
31 7.000000E-01 2.000000E-01 2.000000E-01
32 7.000000E-01 2.000000E-01 2.000000E-01
33 7.000000E-01 2.000000E-01 2.000000E-01
34 7.000000E-01 2.000000E-01 2.000000E-01
35 7.000000E-01 2.000000E-01 2.000000E-01
36 7.000000E-01 2.000000E-01 2.000000E-01
37 7.000000E-01 2.000000E-01 0.000000E+00
38 7.765000E-01 0.000000E+00 0.000000E+00
39 7.000000E-01 0.000000E+00 0.000000E+00
 # SBMIN        PBMIN        PCMAX         PCT_A        PCT_EXP      KRP KPC KTP
 1 5.049450E-01 1.013250E+05 1.000000E+08  1.248000E+06  0.000000E+00  4   2   0
 2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 3 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 4 2.511600E-01 1.013250E+05 1.000000E+08  7.798304E-03 -3.460000E-01  4   2   0
 5 2.511600E-01 1.013250E+05 1.000000E+08  7.798304E-03 -3.460000E-01  4   2   0
 6 2.511600E-01 1.013250E+05 1.000000E+08  7.798304E-03 -3.460000E-01  4   2   0
 7 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 8 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
 9 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
10 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
11 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
12 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
13 2.484300E-01 1.013250E+05 1.000000E+08  3.618162E-01 -3.460000E-01  4   4   0
14 2.484300E-01 1.013250E+05 1.000000E+08  3.618162E-01 -3.460000E-01  4   4   0
15 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
16 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
17 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
18 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
19 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4   2   0
20 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
21 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
22 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
```

```
23 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
24 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
25 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
26 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
27 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
28 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
29 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
30 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
31 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
32 2.100000E-01 1.013250E+05 1.000000E+08  2.329312E+05  0.000000E+00  4  2  0
33 2.100000E-01 1.013250E+05 1.000000E+08  2.329312E+05  0.000000E+00  4  2  0
34 2.100000E-01 1.013250E+05 1.000000E+08  7.946718E+03  0.000000E+00  4  2  0
35 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
36 2.100000E-01 1.013250E+05 1.000000E+08  5.600000E-01 -3.460000E-01  4  2  0
37 2.100000E-01 1.013200E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
38 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
39 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4  1  0
 # PERMX        PERMY        PERMZ        POROSITY     COMPRES
 1 7.244370E-23 7.244370E-23 7.244370E-23  2.419000E-02  3.704064E-10
 2 1.000000E-15 1.000000E-15 1.000000E-15  2.419000E-02  3.408021E-08
 3 1.000000E-15 1.000000E-15 1.000000E-15  2.419000E-02  3.408021E-08
 4 1.023294E-20 1.023294E-20 1.023294E-20  1.240000E-02  2.412196E-08
 5 1.023294E-20 1.023294E-20 1.023294E-20  1.240000E-02  2.412196E-08
 6 1.023294E-20 1.023294E-20 1.023294E-20  1.240000E-02  2.412196E-08
 7 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 8 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
15 1.000000E-15 1.000000E-15 1.000000E-15  2.419000E-02  3.408021E-08
16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
32 5.754402E-17 5.754402E-17 5.754402E-17  5.000000E-02  2.000000E-08
33 5.754402E-17 5.754402E-17 5.754402E-17  5.000000E-02  2.000000E-08
34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
37 6.025592E-13 6.025592E-13 6.025592E-13  3.700000E-01  0.000000E+00
38 1.000000E-15 1.000000E-15 1.000000E-15  2.419000E-02  3.408021E-08
39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL DATA TO FOLLOW :T OR F
 T
 NFRAC
 3
 # DELTA_PI     DELTA_PF     FRAC_PHI     FRAC_EXP     IFRX IFRY IFRZ
 4 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01   1    1    0
 5 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01   1    1    0
 6 1.790000E+06 2.500000E+06 2.240000E-02 4.616207E+01   1    1    0
 KLINKENBERG EFFECT TO BE USED? True or False
 T
 BKLINK        EXPKLINK
  9.80000E-01  -3.30000E-01
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
```

```
 3.00150E+02  1.01320E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
2.9600E+01 1.2300E+03    1    0      2.5000E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
 1.80000E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0000E+00   2.0338E-06   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0000E+00   1.8880E-01
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0000E+00  0.0000E+00
RATE COEFFICIENTS: RXH2S AND RXCO2
 3.3970E-01  0.0000E+00
 3.3970E-01  0.0000E+00
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0000E+00
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1.3316E+00  -1.3368E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID RATE SMOOTHING   ALPHARXN
 0.0000E+00  T  F  1.0000E+03
CREEP CLOSURE?
 T
NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
  1    1    2
CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
4   1.4800E+07   3.1557E+12   1  F
MODPERM PARAMETERS
5.5847E-12   0.0000E+00
NUMBER OF MATERIAL REGIONS FOR CLOSURE
```

```
    2
  #  MAT NO.   MODEL 1= WASTE-FILLED, 2=BACKFILLED
  1   13          4
  2   14          4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
 WILL RADIOLYSIS BE CALCULATED? T or F
 F
 BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

A.7.3 Test Case 7: Input Difference Files, BF2_QB0600_ES47_TEST7_Vnnn_INP.DIF (where nnn = 1 to 20)

BF2_QB0600_ES47_TEST7_V001_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
```

```
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
```

```
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1620     1.0978E-06 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     4.8920E-04 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.2970E+00 1.4061E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     2.6110E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1658     1.0978E-06 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     4.8920E-04 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     2.6110E-01 0.0000E+00
 1665     2.6110E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.2970E+00 -1.4061E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_TEST7_R001_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;1
```

BF2_QB0600_ES47_TEST7_V002_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
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 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
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 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1620     5.1802E-06 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     4.9840E-04 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.0360E+00 1.9279E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     1.4090E+00 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1658     5.1802E-06 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     4.9840E-04 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.4090E+00 0.0000E+00
 1665     1.4090E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0360E+00 -1.9279E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
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 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_TEST7_R002_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;1
```

BF2_QB0600_ES47_TEST7_V003_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
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 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1620     0.0000E+00 2.3835E-08
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 1.0000E-01
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.0717E+00 1.8566E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     1.2770E+00 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1658     0.0000E+00 2.3835E-08 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.0000E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.2770E+00 0.0000E+00
 1665     1.2770E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0717E+00 -1.8566E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
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 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_TEST7_R003_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;1
```

BF2_QB0600_ES47_TEST7_V004_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
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 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1620     8.6010E-09 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1814E+00 1.6372E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     2.1520E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1658     8.6010E-09 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     2.1520E-01 0.0000E+00
 1665     2.1520E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1814E+00 -1.6372E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
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 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_TEST7_R004_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;1
```

BF2_QB0600_ES47_TEST7_V005_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1467     1.013250E+05
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 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1620     0.0000E+00 1.4877E-07
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 1.0000E-01
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.2163E+00 1.5673E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     8.6290E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1658     0.0000E+00 1.4877E-07 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.0000E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     8.6290E-01 0.0000E+00
 1665     8.6290E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
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 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.2163E+00 -1.5673E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_TEST7_R005_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;1
```

BF2_QB0600_ES47_TEST7_V006_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
```

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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
```

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 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1519    39 7.000000E-01 0.000000E+00 0.000000E+00
 1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1566    FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1599    39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601    1.000000E-02 1.000000E-03
 1602    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603    0
 1604    FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1620    0.0000E+00 1.7129E-07
 1621    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622    0.0000E+00 1.0000E-01
 1623    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625    SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626    1.0144E+00 1.9713E+00 1.0000E+00
 1627    SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628    1.0020E+00 0.0000E+00 1.0000E+00
 1629    WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630    0.0000E+00 T 1.0000E+03
 1631    CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1658    0.0000E+00 1.7129E-07 F
 1659    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660    0.0000E+00 1.0000E-01
 1661    RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662    0.0000E+00 0.0000E+00
 1663    RATE COEFFICIENTS: RXH2S AND RXCO2
 1664    1.0020E+00 0.0000E+00
 1665    1.0020E+00 0.0000E+00
 1666    CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667    0.0000E+00
```

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 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0144E+00 -1.9713E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_TEST7_R006_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;1
```

BF2_QB0600_ES47_TEST7_V007_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
```

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   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
```

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 1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1519    39 7.000000E-01 0.000000E+00 0.000000E+00
 1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1566    FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1599    39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601    1.000000E-02 1.000000E-03
 1602    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603    0
 1604    FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1620    0.0000E+00 7.6923E-08
 1621    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622    0.0000E+00 1.0000E-01
 1623    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625    SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626    1.3081E+00 1.3838E+00 1.0000E+00
 1627    SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628    1.1100E+00 0.0000E+00 1.0000E+00
 1629    WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630    0.0000E+00 T 1.0000E+03
 1631    CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1658    0.0000E+00 7.6923E-08 F
 1659    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660    0.0000E+00 1.0000E-01
 1661    RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662    0.0000E+00 0.0000E+00
 1663    RATE COEFFICIENTS: RXH2S AND RXCO2
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 1664     1.1100E+00 0.0000E+00
 1665     1.1100E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.3081E+00 -1.3838E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_TEST7_R007_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;1
```

BF2_QB0600_ES47_TEST7_V008_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

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   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
```

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1620     1.8407E-08 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.0924E+00 1.8152E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     1.5450E+00 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1658     1.8407E-08 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
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 1660     0.0000E+00 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.5450E+00 0.0000E+00
 1665     1.5450E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0924E+00 -1.8152E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_TEST7_R008_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;1
```

BF2_QB0600_ES47_TEST7_V009_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
```

```
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
 1434     4
```

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1435    MATRESET
1436    7 8 9 10
1437    BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1457    5
1458    MATRESET
1459    7 8 9 10 39
1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1467    1.013250E+05
1468    1.013250E+05
1469    1.013250E+05
1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1447    PRESDRZ
1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1473    0.000000E+00
1474    0.250000E+00
1475    0.200000E+00
1476    PRESDRZ
1478    NBORERESET
1479    0
1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1519    39 7.000000E-01 0.000000E+00 0.000000E+00
1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1566    FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
1599    39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
1600    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1601    1.000000E-02 1.000000E-03
1602    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
1603    0
1604    FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
1620    0.0000E+00 3.6635E-07
1621    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
1622    0.0000E+00 1.8129E-01
1623    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
1624    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
1625    SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
1626    1.0313E+00 1.9375E+00 1.0000E+00
1627    SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
1628    1.6120E+00 0.0000E+00 1.0000E+00
1629    WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
1630    0.0000E+00 T 1.0000E+03
1631    CREEP CLOSURE?
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
 1658     0.0000E+00 3.6635E-07 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.8129E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.6120E+00 0.0000E+00
 1665     1.6120E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0313E+00 -1.9375E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_TEST7_R009_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;1
```

BF2_QB0600_ES47_TEST7_V010_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
```

```
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1448     39 CAVITY_5
 1449     NWST
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1620     8.0358E-10 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1864E+00 1.6271E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
```

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 1628     1.2300E+00 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1658     8.0358E-10 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.2300E+00 0.0000E+00
 1665     1.2300E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1864E+00 -1.6271E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_TEST7_R010_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;1
```

BF2_QB0600_ES47_TEST7_V011_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

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   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1426     NWST
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1448    39 CAVITY_5
 1449    NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1434    4
 1435    MATRESET
 1436    7 8 9 10
 1437    BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1457    5
 1458    MATRESET
 1459    7 8 9 10 39
 1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1519    39 7.000000E-01 0.000000E+00 0.000000E+00
 1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1566    FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1599    39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601    1.000000E-02 1.000000E-03
 1602    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603    0
 1604    FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1620    5.6569E-06 0.0000E+00
 1621    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622    4.9875E-04 0.0000E+00
 1623    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
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 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.0604E+00 1.8792E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     6.7970E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1658     5.6569E-06 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     4.9875E-04 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     6.7970E-01 0.0000E+00
 1665     6.7970E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.0604E+00 -1.8792E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_TEST7_R011_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;1
```

BF2_QB0600_ES47_TEST7_V012_INP.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
```

```
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1276     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1270     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1271     31*0.000000E+00
 1272     31*0.000000E+00
 1273     31*0.000000E+00
 1274     31*0.000000E+00
 1275     31*0.000000E+00
 1276     31*0.000000E+00
 1277     31*0.000000E+00
 1278     31*0.000000E+00
 1279     31*0.000000E+00
 1280     31*0.000000E+00
 1281     31*0.000000E+00
 1282     31*0.000000E+00
 1283     31*0.000000E+00
 1284     31*0.000000E+00
 1285     31*0.000000E+00
 1286     31*0.000000E+00
 1287     31*0.000000E+00
 1288     31*0.000000E+00
 1289     31*0.000000E+00
 1290     31*0.000000E+00
 1291     31*0.000000E+00
 1292     31*0.000000E+00
 1293     31*0.000000E+00
 1294     31*0.000000E+00
 1295     31*0.000000E+00
 1296     31*0.000000E+00
 1297     31*0.000000E+00
 1298     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1359     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1360     11 11 11 11 11
 1361     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1362     11 11 11 11 11
 1363     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1364     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1381     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1382     11 11 11 11 11
 1383     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1384     11 11 11 11 11
 1385     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1386     11 11 11 11 11
```

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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1575     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1597     39 CAVITY_5
 1598     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1583     4
 1584     MATRESET
 1585     7 8 9 10
 1586     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1606     5
 1607     MATRESET
 1608     7 8 9 10 39
 1609     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1593     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1616     1.013250E+05
 1617     1.013250E+05
 1618     1.013250E+05
 1619     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1596     PRESDRZ
 1598     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1622     0.000000E+00
 1623     0.250000E+00
 1624     0.200000E+00
 1625     PRESDRZ
 1627     NBORERESET
 1628     0
 1629     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1637     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1668     39 7.000000E-01 0.000000E+00 0.000000E+00
 1669     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1676     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1708     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1709     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1715     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1748     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1749     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1750     1.000000E-02 1.000000E-03
 1751     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1752     0
 1753     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
```

```
 1769     0.0000E+00 1.9537E-07
 1770     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1771     0.0000E+00 1.0000E-01
 1772     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1773     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1774     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1775     1.2496E+00 1.5009E+00 1.0000E+00
 1776     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1777     8.2460E-01 0.0000E+00 1.0000E+00
 1778     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1779     0.0000E+00 T 1.0000E+03
 1780     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1807     0.0000E+00 1.9537E-07 F
 1808     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1809     0.0000E+00 1.0000E-01
 1810     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1811     0.0000E+00 0.0000E+00
 1812     RATE COEFFICIENTS: RXH2S AND RXCO2
 1813     8.2460E-01 0.0000E+00
 1814     8.2460E-01 0.0000E+00
 1815     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1816     0.0000E+00
 1817     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1818     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1819     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1820     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1821     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1822     1.2496E+00 -1.5009E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1823     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1824     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1825     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1826     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1827     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1828     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1829     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1830     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1831     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1832     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1833     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1834     0.0000E+00 T F 1.0000E+03
 1835     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1
 1784     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1785     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1786     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
 1839     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1840     4 1.4800E+07 3.1557E+12 1 F
 1841     MODPERM PARAMETERS
 1842     5.5847E-12 0.0000E+00
 1843     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_TEST7_R012_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;1
```

BF2_QB0600_ES47_TEST7_V013_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
```

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 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
```

```
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1620     2.0642E-08 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.2802E+00 1.4397E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     1.4280E+00 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1658     2.0642E-08 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.4280E+00 0.0000E+00
 1665     1.4280E+00 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.2802E+00 -1.4397E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_TEST7_R013_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;1
```

BF2_QB0600_ES47_TEST7_V014_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
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```
   28      1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32      0 0 0 0 0 0
   33      0 0
   34      0 0
   35      0 0
   36      BINARY PRINT FLAGS
   37      1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38      0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41      0 0 0 0 0 0
   42      0 0
   43      0 0
   44      0 0
   45      HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
   28      1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30      0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32      0 0 0 0 0 0 0
   33      BINARY PRINT FLAGS
   34      1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35      0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36      0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37      0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38      0 0 0 0 0 0 0
   39      HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1127      DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1121      GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122      31*0.000000E+00
 1123      31*0.000000E+00
 1124      31*0.000000E+00
 1125      31*0.000000E+00
 1126      31*0.000000E+00
 1127      31*0.000000E+00
 1128      31*0.000000E+00
 1129      31*0.000000E+00
 1130      31*0.000000E+00
 1131      31*0.000000E+00
 1132      31*0.000000E+00
 1133      31*0.000000E+00
 1134      31*0.000000E+00
 1135      31*0.000000E+00
 1136      31*0.000000E+00
 1137      31*0.000000E+00
 1138      31*0.000000E+00
 1139      31*0.000000E+00
 1140      31*0.000000E+00
 1141      31*0.000000E+00
 1142      31*0.000000E+00
 1143      31*0.000000E+00
 1144      31*0.000000E+00
 1145      31*0.000000E+00
 1146      31*0.000000E+00
 1147      31*0.000000E+00
 1148      31*0.000000E+00
 1149      DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1210      11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211      11 11 11 11 11
 1212      11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213      11 11 11 11 11
 1214      11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215      11 11 11 11 11
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
```

```
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1620     2.0477E-07 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     4.2602E-04 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1493E+00 1.7013E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     4.8530E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1658     2.0477E-07 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     4.2602E-04 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     4.8530E-01 0.0000E+00
 1665     4.8530E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1493E+00 -1.7013E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_TEST7_R014_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;1
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BF2_QB0600_ES47_TEST7_V015_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
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 1210    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211    11 11 11 11 11
 1212    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213    11 11 11 11 11
 1214    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215    11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1232    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233    11 11 11 11 11
 1234    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235    11 11 11 11 11
 1236    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237    11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1426    NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1448    39 CAVITY_5
 1449    NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1434    4
 1435    MATRESET
 1436    7 8 9 10
 1437    BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1457    5
 1458    MATRESET
 1459    7 8 9 10 39
 1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1519    39 7.000000E-01 0.000000E+00 0.000000E+00
 1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
```

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1620     0.0000E+00 2.4937E-06
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 1.0000E-01
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.2226E+00 1.5549E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     8.2160E-02 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1658     0.0000E+00 2.4937E-06 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.0000E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     8.2160E-02 0.0000E+00
 1665     8.2160E-02 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.2226E+00 -1.5549E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
```

```
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_INP.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_TEST7_R015_QA0500.INP;1-
PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;1
```

BF2_QB0600_ES47_TEST7_V016_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
```

```
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1620     2.1510E-08 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1327E+00 1.7346E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     1.4290E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1658     2.1510E-08 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     1.4290E-01 0.0000E+00
 1665     1.4290E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1327E+00 -1.7346E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************
```

```
Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_TEST7_R016_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;1
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BF2_QB0600_ES47_TEST7_V017_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
```

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 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
 1478     NBORERESET
 1479     0
 1480     # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
```

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1620     0.0000E+00 1.2085E-07
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 1.0000E-01
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1560E+00 1.6880E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     5.3320E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1658     0.0000E+00 1.2085E-07 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.0000E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     5.3320E-01 0.0000E+00
 1665     5.3320E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1560E+00 -1.6880E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
```

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 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_TEST7_R017_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;1
```

BF2_QB0600_ES47_TEST7_V018_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
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 1141    31*0.000000E+00
 1142    31*0.000000E+00
 1143    31*0.000000E+00
 1144    31*0.000000E+00
 1145    31*0.000000E+00
 1146    31*0.000000E+00
 1147    31*0.000000E+00
 1148    31*0.000000E+00
 1149    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1210    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211    11 11 11 11 11
 1212    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213    11 11 11 11 11
 1214    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215    11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1232    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233    11 11 11 11 11
 1234    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235    11 11 11 11 11
 1236    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237    11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1426    NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1448    39 CAVITY_5
 1449    NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1434    4
 1435    MATRESET
 1436    7 8 9 10
 1437    BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1457    5
 1458    MATRESET
 1459    7 8 9 10 39
 1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1620     1.2897E-06 0.0000E+00
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     4.9079E-04 0.0000E+00
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.2638E+00 1.4724E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     9.8660E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1658     1.2897E-06 0.0000E+00 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     4.9079E-04 0.0000E+00
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     9.8660E-01 0.0000E+00
 1665     9.8660E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.2638E+00 -1.4724E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1
 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
 1690    CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691    4 1.4800E+07 3.1557E+12 1 F
 1692    MODPERM PARAMETERS
 1693    5.5847E-12 0.0000E+00
 1694    NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_TEST7_R018_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;1
```

BF2_QB0600_ES47_TEST7_V019_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
   28    1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32    0 0 0 0 0 0
   33    0 0
   34    0 0
   35    0 0
   36    BINARY PRINT FLAGS
   37    1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38    0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41    0 0 0 0 0 0
   42    0 0
   43    0 0
   44    0 0
   45    HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
   28    1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30    0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32    0 0 0 0 0 0 0
   33    BINARY PRINT FLAGS
   34    1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35    0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36    0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38    0 0 0 0 0 0 0
   39    HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1127    DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1121    GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122    31*0.000000E+00
 1123    31*0.000000E+00
 1124    31*0.000000E+00
 1125    31*0.000000E+00
 1126    31*0.000000E+00
 1127    31*0.000000E+00
 1128    31*0.000000E+00
 1129    31*0.000000E+00
 1130    31*0.000000E+00
 1131    31*0.000000E+00
 1132    31*0.000000E+00
 1133    31*0.000000E+00
 1134    31*0.000000E+00
 1135    31*0.000000E+00
 1136    31*0.000000E+00
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 1137    31*0.000000E+00
 1138    31*0.000000E+00
 1139    31*0.000000E+00
 1140    31*0.000000E+00
 1141    31*0.000000E+00
 1142    31*0.000000E+00
 1143    31*0.000000E+00
 1144    31*0.000000E+00
 1145    31*0.000000E+00
 1146    31*0.000000E+00
 1147    31*0.000000E+00
 1148    31*0.000000E+00
 1149    DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1210    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211    11 11 11 11 11
 1212    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213    11 11 11 11 11
 1214    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215    11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1232    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233    11 11 11 11 11
 1234    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235    11 11 11 11 11
 1236    11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237    11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1426    NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1448    39 CAVITY_5
 1449    NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1434    4
 1435    MATRESET
 1436    7 8 9 10
 1437    BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1457    5
 1458    MATRESET
 1459    7 8 9 10 39
 1460    BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1444    SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1467    1.013250E+05
 1468    1.013250E+05
 1469    1.013250E+05
 1470    SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1447    PRESDRZ
 1449    # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1473    0.000000E+00
 1474    0.250000E+00
 1475    0.200000E+00
 1476    PRESDRZ
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1488     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1519     39 7.000000E-01 0.000000E+00 0.000000E+00
 1520     # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1527     # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1559     39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560     # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1566     FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1599     39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600     TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601     1.000000E-02 1.000000E-03
 1602     NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603     0
 1604     FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
 1620     0.0000E+00 4.7213E-07
 1621     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622     0.0000E+00 1.0000E-01
 1623     REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625     SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626     1.1120E+00 1.7759E+00 1.0000E+00
 1627     SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628     6.0990E-01 0.0000E+00 1.0000E+00
 1629     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630     0.0000E+00 T 1.0000E+03
 1631     CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1658     0.0000E+00 4.7213E-07 F
 1659     HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660     0.0000E+00 1.0000E-01
 1661     RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662     0.0000E+00 0.0000E+00
 1663     RATE COEFFICIENTS: RXH2S AND RXCO2
 1664     6.0990E-01 0.0000E+00
 1665     6.0990E-01 0.0000E+00
 1666     CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667     0.0000E+00
 1668     REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669     2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670     REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671     8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672     S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673     1.1120E+00 -1.7759E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674     0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679     0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680     REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681     7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682     REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683     3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684     WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685     0.0000E+00 T F 1.0000E+03
 1686     CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1
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 1635     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636     4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637     NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
 1690     CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691     4 1.4800E+07 3.1557E+12 1 F
 1692     MODPERM PARAMETERS
 1693     5.5847E-12 0.0000E+00
 1694     NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_TEST7_R019_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;1
```

BF2_QB0600_ES47_TEST7_V020_INP.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
   30     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0
   33     0 0
   34     0 0
   35     0 0
   36     BINARY PRINT FLAGS
   37     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0
   38     0 0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 1 1
   39     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   40     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   41     0 0 0 0 0 0
   42     0 0
   43     0 0
   44     0 0
   45     HISTORY VARIABLE OUTPUT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
   28     1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
   29     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   30     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   31     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   32     0 0 0 0 0 0 0
   33     BINARY PRINT FLAGS
   34     1 1 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 0 1 0 0 0 0 0
   35     0 0 0 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
   36     0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   37     0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
   38     0 0 0 0 0 0 0
   39     HISTORY VARIABLE OUTPUT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1127     DSATLIM, DPRESLIM, SATLIMIT
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1121     GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 1122     31*0.000000E+00
 1123     31*0.000000E+00
 1124     31*0.000000E+00
 1125     31*0.000000E+00
 1126     31*0.000000E+00
 1127     31*0.000000E+00
 1128     31*0.000000E+00
 1129     31*0.000000E+00
 1130     31*0.000000E+00
 1131     31*0.000000E+00
 1132     31*0.000000E+00
```

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 1133     31*0.000000E+00
 1134     31*0.000000E+00
 1135     31*0.000000E+00
 1136     31*0.000000E+00
 1137     31*0.000000E+00
 1138     31*0.000000E+00
 1139     31*0.000000E+00
 1140     31*0.000000E+00
 1141     31*0.000000E+00
 1142     31*0.000000E+00
 1143     31*0.000000E+00
 1144     31*0.000000E+00
 1145     31*0.000000E+00
 1146     31*0.000000E+00
 1147     31*0.000000E+00
 1148     31*0.000000E+00
 1149     DSATLIM, DPRESLIM, SATLIMIT
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1210     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1211     11 11 11 11 11
 1212     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1213     11 11 11 11 11
 1214     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11
 1215     11 11 11 11 11
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1232     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1233     11 11 11 11 11
 1234     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1235     11 11 11 11 11
 1236     11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11
 1237     11 11 11 11 11
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1426     NWST
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1448     39 CAVITY_5
 1449     NWST
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1434     4
 1435     MATRESET
 1436     7 8 9 10
 1437     BORE HOLE MATERIAL NUMBER
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1457     5
 1458     MATRESET
 1459     7 8 9 10 39
 1460     BORE HOLE MATERIAL NUMBER
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1444     SOWASTEIC
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1467     1.013250E+05
 1468     1.013250E+05
 1469     1.013250E+05
 1470     SOWASTEIC
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1447     PRESDRZ
 1449     # LAMBDA SOR SGR
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1473     0.000000E+00
 1474     0.250000E+00
 1475     0.200000E+00
 1476     PRESDRZ
```

```
 1478    NBORERESET
 1479    0
 1480    # LAMBDA SOR SGR
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1488    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1519    39 7.000000E-01 0.000000E+00 0.000000E+00
 1520    # SBMIN PBMIN PCMAX PCT_A PCT_EXP KRP KPC KTP
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1527    # PERMX PERMY PERMZ POROSITY COMPRES
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1559    39 0.000000E+00 1.013250E+05 1.000000E+08 0.000000E+00 0.000000E+00 4 1 0
 1560    # PERMX PERMY PERMZ POROSITY COMPRES
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1566    FRACTURE MODEL DATA TO FOLLOW :T OR F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1599    39 1.000000E-10 1.000000E-10 1.000000E-10 1.000000E+00 0.000000E+00
 1600    TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1601    1.000000E-02 1.000000E-03
 1602    NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 1603    0
 1604    FRACTURE MODEL DATA TO FOLLOW :T OR F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1620    0.0000E+00 2.0338E-06
 1621    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1622    0.0000E+00 1.8880E-01
 1623    REACTANT/PRODUCT MOLECULAR WEIGHTS (H2, H2O, FE, [C6-H10-O5]/6
 1624    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1625    SCOR_H2=a,SCOR_H2O=b,SCOR_FE=c: where b*H2O + c*FE=> a*H2 + inert solids
 1626    1.3316E+00 1.3368E+00 1.0000E+00
 1627    SBIO_GAS=a,SBIO_H2O=b,SBIO_CH2O=c: where b*H2O + c*CH2O=> a*GAS + inerts
 1628    3.3970E-01 0.0000E+00 1.0000E+00
 1629    WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1630    0.0000E+00 T 1.0000E+03
 1631    CREEP CLOSURE?
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1658    0.0000E+00 2.0338E-06 F
 1659    HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 1660    0.0000E+00 1.8880E-01
 1661    RATE CONSTANTS: BRUCITEI AND BRUCITEH
 1662    0.0000E+00 0.0000E+00
 1663    RATE COEFFICIENTS: RXH2S AND RXCO2
 1664    3.3970E-01 0.0000E+00
 1665    3.3970E-01 0.0000E+00
 1666    CHEMISTRY CUTOFF SATURATION: SOCMIN
 1667    0.0000E+00
 1668    REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 1669    2.01588D-03 18.01528D-03 55.847D-03 3.0026E-02
 1670    REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 1671    8.98617E-02 8.79000E-02 4.03044E-02 5.83196E-02 8.43142E-02
 1672    S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 1673    1.3316E+00 -1.3368E+00 -1.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1674    0.0000E+00 0.0000E+00 0.0000E+00 -1.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1675    0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1676    0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1677    0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1678    0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1679    0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00
 1680    REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 1681    7.8700E+03 3.40000E+03 4.70000E+03 1.10000E+03
 1682    REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 1683    3.6000E+03 2.37000E+03 3.05000E+03 2.17000E+03
 1684    WICKING SATURATION, HUMID RATE SMOOTHING ALPHARXN
 1685    0.0000E+00 T F 1.0000E+03
```

```
 1686    CREEP CLOSURE?
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1
 1635    CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF PERM_FACTOR, PERM_EXP
 1636    4 1.4800E+07 3.1557E+12 5.5847E-12 0.0000E+00
 1637    NUMBER OF MATERIAL REGIONS FOR CLOSURE
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
 1690    CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 1691    4 1.4800E+07 3.1557E+12 1 F
 1692    MODPERM PARAMETERS
 1693    5.5847E-12 0.0000E+00
 1694    NUMBER OF MATERIAL REGIONS FOR CLOSURE
************

Number of difference sections found: 12
Number of difference records found: 102

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_INP.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_TEST7_R020_QA0500.INP;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;1
```

A.7.4 Test Case 7: Output Difference File, BF2_QB0600_ES47_TEST7_Vnnn_OUT.DIF (where nnn = 1 to 20)

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

BF2_QB0600_ES47_TEST7_V001_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
    2    ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3    ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
    2    ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3    ** Begun on: 05/18/06 at 10:22:00 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
   62    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   61    PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_TEST7_R001_QA0500.INP;1
   62    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
   67    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   66    PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_CLOSURE.DAT;1
   67    ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   72    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   71    PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   72    ***************************************************************************
************
```

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R001]BF2_VMS82_V500_ES47_TEST7_R001.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
```

```
  238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264     112 0 0 H2OFLOWIN Water inflow rate kg/s
  265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
************************************************************************************************
**************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
```

```
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     --------------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     --------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  828     Special material index numbers:
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
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  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 2.611000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 2.611000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.297000E+00
 1114     H2O coefficient = -1.406100E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
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Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 2:
H2 coefficient = 2.611000E-01
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = -1.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 3:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 4:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 5:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 6:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 7:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Wicking term (SATWICK) = 0.000000E+00
Humid rates to be smoothed? (LARXN) = T
Concentration rates to be smoothed? (LARXN2) = F
Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.297000E+00
 1069     H2O coefficient = 1.406100E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 2.611000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 28.78 sec = 0.00799 hr
 1774    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 25.62 sec = 0.00712 hr
 1628    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 2450     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) ASCII
 2452     Time Step No. = 163 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 2.119576E-04 days
 2456     Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 ( 32.42 sec) Binary
 2458     Time Step No. = 200 Elapsed Time = 1.880303E-02 days
 2459     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 ( 35.33 sec) Binary
 2461     Time Step No. = 220 Elapsed Time = 1.631321E+00 days
 2462     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
 2464     Time Step No. = 240 Elapsed Time = 2.774403E+01 days
 2465     Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 ( 41.89 sec) Binary
 2467     Time Step No. = 260 Elapsed Time = 4.892922E+02 days
 2468     Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 ( 46.37 sec) Binary
 2470     Time Step No. = 280 Elapsed Time = 4.026427E+03 days
 2471     Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 ( 52.49 sec) Binary
 2473     Time Step No. = 300 Elapsed Time = 1.166868E+04 days
 2474     Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 ( 59.93 sec) Binary
 2476     Time Step No. = 320 Elapsed Time = 2.296322E+04 days
 2477     Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 ( 66.17 sec) Binary
 2479     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2480     Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 ( 78.93 sec) Binary
 2482     Time Step No. = 360 Elapsed Time = 3.652431E+04 days
 2483     Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 ( 81.71 sec) Binary
 2485     Time Step No. = 380 Elapsed Time = 3.652431E+04 days
 2486     Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 ( 84.68 sec) Binary
 2488     Time Step No. = 400 Elapsed Time = 3.652443E+04 days
 2489     Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 ( 87.96 sec) Binary
 2491     Time Step No. = 420 Elapsed Time = 3.653512E+04 days
 2492     Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 ( 90.92 sec) Binary
 2494     Time Step No. = 440 Elapsed Time = 3.668108E+04 days
 2495     Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 ( 94.09 sec) Binary
 2497     Time Step No. = 460 Elapsed Time = 3.670152E+04 days
 2498     Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 ( 96.32 sec) Binary
 2500     Time Step No. = 480 Elapsed Time = 3.726604E+04 days
 2501     Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 ( 100.74 sec) Binary
 2503     Time Step No. = 500 Elapsed Time = 3.912333E+04 days
 2504     Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 ( 108.09 sec) Binary
 2506     Time Step No. = 520 Elapsed Time = 7.687584E+04 days
 2507     Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 ( 115.62 sec) Binary
 2509     Time Step No. = 540 Elapsed Time = 1.534551E+05 days
 2510     Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 ( 124.66 sec) Binary
 2512     Time Step No. = 560 Elapsed Time = 3.652432E+05 days
 2513     Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 ( 133.73 sec) Binary
 2515     Time Step No. = 580 Elapsed Time = 3.652461E+05 days
 2516     Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 ( 137.44 sec) Binary
 2518     Time Step No. = 600 Elapsed Time = 3.653145E+05 days
 2519     Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 ( 142.90 sec) Binary
 2521     Time Step No. = 620 Elapsed Time = 3.663770E+05 days
 2522     Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 ( 151.20 sec) Binary
 2524     Time Step No. = 640 Elapsed Time = 3.665294E+05 days
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2525 Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 ( 153.91 sec) Binary
2527 Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528 Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 ( 157.38 sec) Binary
2530 Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531 Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2533 Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534 Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 ( 169.47 sec) Binary
2536 Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537 Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 ( 176.71 sec) Binary
2539 Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540 Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 ( 187.76 sec) Binary
2542 Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543 Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 ( 195.69 sec) Binary
2545 Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546 Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 ( 201.79 sec) Binary
2548 Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549 Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 ( 205.09 sec) Binary
2551 Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552 Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 ( 213.60 sec) Binary
2554 Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 ( 220.40 sec) Binary
2557 Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558 Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 ( 229.17 sec) Binary
2560 Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561 Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 ( 235.48 sec) Binary
2563 Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564 Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 ( 242.64 sec) Binary
2566 Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567 Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 ( 246.78 sec) Binary
2569 Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570 Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 ( 255.03 sec) Binary
2572 Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573 Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 ( 260.82 sec) Binary
2575 Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576 Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 ( 266.54 sec) Binary
2578 Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579 Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 ( 271.04 sec) Binary
2581 Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582 Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 ( 279.14 sec) Binary
2584 Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 ( 287.84 sec) Binary
2587 Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588 Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 ( 294.49 sec) Binary
2590 Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591 Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 ( 301.09 sec) Binary
2593 Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594 Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 ( 309.65 sec) Binary
2596 Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597 Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 ( 315.44 sec) Binary
2599 Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600 Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 ( 321.08 sec) Binary
2602 Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603 Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 ( 331.27 sec) Binary
2605 Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 ( 337.06 sec) Binary
2608 Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609 Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 ( 343.20 sec) Binary
2611 Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612 Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 ( 355.70 sec) Binary
2614 Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615 Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 ( 359.71 sec) Binary
2617 Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618 Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 ( 366.05 sec) Binary
2620 Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621 Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 ( 373.90 sec) Binary
2623 Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624 Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 ( 378.31 sec) Binary
2626 Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627 Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 ( 384.18 sec) Binary
2629 Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630 Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 ( 389.48 sec) Binary
2632 Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633 Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
2635 Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636 Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
2638 Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
```

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 2639     Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 ( 412.81 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
 2642     Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 ( 419.54 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
 2645     Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 ( 425.38 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
 2648     Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 2304     Date: 05/18/06 Time: 10:22:26 CPU Time: 0 0: 0:25.64 ( 25.64 sec) ASCII
 2306     Time Step No. = 163 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:22:26 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
 2309     Time Step No. = 180 Elapsed Time = 2.119576E-04 days
 2310     Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:28.95 ( 28.95 sec) Binary
 2312     Time Step No. = 200 Elapsed Time = 1.880303E-02 days
 2313     Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:31.61 ( 31.61 sec) Binary
 2315     Time Step No. = 220 Elapsed Time = 1.631321E+00 days
 2316     Date: 05/18/06 Time: 10:22:35 CPU Time: 0 0: 0:34.43 ( 34.43 sec) Binary
 2318     Time Step No. = 240 Elapsed Time = 2.774403E+01 days
 2319     Date: 05/18/06 Time: 10:22:38 CPU Time: 0 0: 0:37.56 ( 37.56 sec) Binary
 2321     Time Step No. = 260 Elapsed Time = 4.892922E+02 days
 2322     Date: 05/18/06 Time: 10:22:42 CPU Time: 0 0: 0:41.45 ( 41.45 sec) Binary
 2324     Time Step No. = 280 Elapsed Time = 4.026427E+03 days
 2325     Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:46.70 ( 46.70 sec) Binary
 2327     Time Step No. = 300 Elapsed Time = 1.166868E+04 days
 2328     Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:53.05 ( 53.05 sec) Binary
 2330     Time Step No. = 320 Elapsed Time = 2.296322E+04 days
 2331     Date: 05/18/06 Time: 10:22:59 CPU Time: 0 0: 0:58.37 ( 58.37 sec) Binary
 2333     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2334     Date: 05/18/06 Time: 10:23:10 CPU Time: 0 0: 1: 9.26 ( 69.26 sec) Binary
 2336     Time Step No. = 360 Elapsed Time = 3.652431E+04 days
 2337     Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1:11.62 ( 71.62 sec) Binary
 2339     Time Step No. = 380 Elapsed Time = 3.652431E+04 days
 2340     Date: 05/18/06 Time: 10:23:15 CPU Time: 0 0: 1:14.17 ( 74.17 sec) Binary
 2342     Time Step No. = 400 Elapsed Time = 3.652443E+04 days
 2343     Date: 05/18/06 Time: 10:23:18 CPU Time: 0 0: 1:16.99 ( 76.99 sec) Binary
 2345     Time Step No. = 420 Elapsed Time = 3.653512E+04 days
 2346     Date: 05/18/06 Time: 10:23:20 CPU Time: 0 0: 1:19.53 ( 79.53 sec) Binary
 2348     Time Step No. = 440 Elapsed Time = 3.668108E+04 days
 2349     Date: 05/18/06 Time: 10:23:23 CPU Time: 0 0: 1:22.41 ( 82.41 sec) Binary
 2351     Time Step No. = 460 Elapsed Time = 3.670152E+04 days
 2352     Date: 05/18/06 Time: 10:23:25 CPU Time: 0 0: 1:24.37 ( 84.37 sec) Binary
 2354     Time Step No. = 480 Elapsed Time = 3.726604E+04 days
 2355     Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:27.82 ( 87.82 sec) Binary
 2357     Time Step No. = 500 Elapsed Time = 3.912333E+04 days
 2358     Date: 05/18/06 Time: 10:23:35 CPU Time: 0 0: 1:33.89 ( 93.89 sec) Binary
 2360     Time Step No. = 520 Elapsed Time = 7.687584E+04 days
 2361     Date: 05/18/06 Time: 10:23:41 CPU Time: 0 0: 1:40.08 ( 100.08 sec) Binary
 2363     Time Step No. = 540 Elapsed Time = 1.534551E+05 days
 2364     Date: 05/18/06 Time: 10:23:48 CPU Time: 0 0: 1:47.53 ( 107.53 sec) Binary
 2366     Time Step No. = 560 Elapsed Time = 3.652432E+05 days
 2367     Date: 05/18/06 Time: 10:23:56 CPU Time: 0 0: 1:55.25 ( 115.25 sec) Binary
 2369     Time Step No. = 580 Elapsed Time = 3.652461E+05 days
 2370     Date: 05/18/06 Time: 10:23:59 CPU Time: 0 0: 1:58.33 ( 118.33 sec) Binary
 2372     Time Step No. = 600 Elapsed Time = 3.653145E+05 days
 2373     Date: 05/18/06 Time: 10:24:04 CPU Time: 0 0: 2: 2.89 ( 122.89 sec) Binary
 2375     Time Step No. = 620 Elapsed Time = 3.663770E+05 days
 2376     Date: 05/18/06 Time: 10:24:11 CPU Time: 0 0: 2: 9.78 ( 129.78 sec) Binary
 2378     Time Step No. = 640 Elapsed Time = 3.665294E+05 days
 2379     Date: 05/18/06 Time: 10:24:13 CPU Time: 0 0: 2:12.06 ( 132.06 sec) Binary
 2381     Time Step No. = 660 Elapsed Time = 3.667198E+05 days
 2382     Date: 05/18/06 Time: 10:24:16 CPU Time: 0 0: 2:14.98 ( 134.98 sec) Binary
 2384     Time Step No. = 680 Elapsed Time = 3.694667E+05 days
 2385     Date: 05/18/06 Time: 10:24:22 CPU Time: 0 0: 2:21.41 ( 141.41 sec) Binary
 2387     Time Step No. = 700 Elapsed Time = 3.697358E+05 days
 2388     Date: 05/18/06 Time: 10:24:26 CPU Time: 0 0: 2:25.03 ( 145.03 sec) Binary
 2390     Time Step No. = 720 Elapsed Time = 3.733002E+05 days
 2391     Date: 05/18/06 Time: 10:24:32 CPU Time: 0 0: 2:31.42 ( 151.42 sec) Binary
 2393     Time Step No. = 740 Elapsed Time = 3.764582E+05 days
 2394     Date: 05/18/06 Time: 10:24:43 CPU Time: 0 0: 2:41.78 ( 161.78 sec) Binary
 2396     Time Step No. = 760 Elapsed Time = 3.766434E+05 days
 2397     Date: 05/18/06 Time: 10:24:50 CPU Time: 0 0: 2:49.13 ( 169.13 sec) Binary
 2399     Time Step No. = 780 Elapsed Time = 3.768308E+05 days
 2400     Date: 05/18/06 Time: 10:24:56 CPU Time: 0 0: 2:54.52 ( 174.52 sec) Binary
 2402     Time Step No. = 800 Elapsed Time = 3.769094E+05 days
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 2403     Date: 05/18/06 Time: 10:24:59 CPU Time: 0 0: 2:57.46 ( 177.46 sec) Binary
 2405     Time Step No. = 820 Elapsed Time = 3.804952E+05 days
 2406     Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 3: 4.86 ( 184.86 sec) Binary
 2408     Time Step No. = 840 Elapsed Time = 3.807620E+05 days
 2409     Date: 05/18/06 Time: 10:25:12 CPU Time: 0 0: 3:10.72 ( 190.72 sec) Binary
 2411     Time Step No. = 860 Elapsed Time = 3.823931E+05 days
 2412     Date: 05/18/06 Time: 10:25:20 CPU Time: 0 0: 3:18.20 ( 198.20 sec) Binary
 2414     Time Step No. = 880 Elapsed Time = 3.824076E+05 days
 2415     Date: 05/18/06 Time: 10:25:25 CPU Time: 0 0: 3:23.66 ( 203.66 sec) Binary
 2417     Time Step No. = 900 Elapsed Time = 3.825485E+05 days
 2418     Date: 05/18/06 Time: 10:25:31 CPU Time: 0 0: 3:29.64 ( 209.64 sec) Binary
 2420     Time Step No. = 920 Elapsed Time = 3.826760E+05 days
 2421     Date: 05/18/06 Time: 10:25:35 CPU Time: 0 0: 3:33.09 ( 213.09 sec) Binary
 2423     Time Step No. = 940 Elapsed Time = 3.853540E+05 days
 2424     Date: 05/18/06 Time: 10:25:42 CPU Time: 0 0: 3:40.12 ( 220.12 sec) Binary
 2426     Time Step No. = 960 Elapsed Time = 3.854180E+05 days
 2427     Date: 05/18/06 Time: 10:25:47 CPU Time: 0 0: 3:45.01 ( 225.01 sec) Binary
 2429     Time Step No. = 980 Elapsed Time = 3.854555E+05 days
 2430     Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:49.89 ( 229.89 sec) Binary
 2432     Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
 2433     Date: 05/18/06 Time: 10:25:55 CPU Time: 0 0: 3:53.79 ( 233.79 sec) Binary
 2435     Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
 2436     Date: 05/18/06 Time: 10:26:02 CPU Time: 0 0: 4: 0.65 ( 240.65 sec) Binary
 2438     Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
 2439     Date: 05/18/06 Time: 10:26:10 CPU Time: 0 0: 4: 8.29 ( 248.29 sec) Binary
 2441     Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
 2442     Date: 05/18/06 Time: 10:26:16 CPU Time: 0 0: 4:14.04 ( 254.04 sec) Binary
 2444     Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
 2445     Date: 05/18/06 Time: 10:26:21 CPU Time: 0 0: 4:19.23 ( 259.23 sec) Binary
 2447     Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
 2448     Date: 05/18/06 Time: 10:26:28 CPU Time: 0 0: 4:26.35 ( 266.35 sec) Binary
 2450     Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
 2451     Date: 05/18/06 Time: 10:26:33 CPU Time: 0 0: 4:31.43 ( 271.43 sec) Binary
 2453     Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
 2454     Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:36.44 ( 276.44 sec) Binary
 2456     Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
 2457     Date: 05/18/06 Time: 10:26:47 CPU Time: 0 0: 4:45.44 ( 285.44 sec) Binary
 2459     Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
 2460     Date: 05/18/06 Time: 10:26:52 CPU Time: 0 0: 4:50.53 ( 290.53 sec) Binary
 2462     Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
 2463     Date: 05/18/06 Time: 10:26:58 CPU Time: 0 0: 4:56.12 ( 296.12 sec) Binary
 2465     Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
 2466     Date: 05/18/06 Time: 10:27:09 CPU Time: 0 0: 5: 7.37 ( 307.37 sec) Binary
 2468     Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
 2469     Date: 05/18/06 Time: 10:27:13 CPU Time: 0 0: 5:10.95 ( 310.95 sec) Binary
 2471     Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
 2472     Date: 05/18/06 Time: 10:27:18 CPU Time: 0 0: 5:16.56 ( 316.56 sec) Binary
 2474     Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
 2475     Date: 05/18/06 Time: 10:27:26 CPU Time: 0 0: 5:23.70 ( 323.70 sec) Binary
 2477     Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
 2478     Date: 05/18/06 Time: 10:27:30 CPU Time: 0 0: 5:27.89 ( 327.89 sec) Binary
 2480     Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
 2481     Date: 05/18/06 Time: 10:27:35 CPU Time: 0 0: 5:33.41 ( 333.41 sec) Binary
 2483     Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
 2484     Date: 05/18/06 Time: 10:27:40 CPU Time: 0 0: 5:38.47 ( 338.47 sec) Binary
 2486     Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
 2487     Date: 05/18/06 Time: 10:27:48 CPU Time: 0 0: 5:46.50 ( 346.50 sec) Binary
 2489     Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
 2490     Date: 05/18/06 Time: 10:27:56 CPU Time: 0 0: 5:54.00 ( 354.00 sec) Binary
 2492     Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
 2493     Date: 05/18/06 Time: 10:28:03 CPU Time: 0 0: 6: 0.49 ( 360.49 sec) Binary
 2495     Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
 2496     Date: 05/18/06 Time: 10:28:08 CPU Time: 0 0: 6: 5.91 ( 365.91 sec) Binary
 2498     Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
 2499     Date: 05/18/06 Time: 10:28:13 CPU Time: 0 0: 6:10.80 ( 370.80 sec) Binary
 2501     Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
 2502     Date: 05/18/06 Time: 10:28:17 CPU Time: 0 0: 6:15.31 ( 375.31 sec) Binary
 2505     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 2667     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2668     CPU Time (total for run) = 436.72 sec = 0.12131 hr
 2669    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
```

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 2521     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2522     CPU Time (total for run) = 379.71 sec = 0.10547 hr
 2523     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 3345     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
 3347     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
 3353     *****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
 3199     Date: 05/18/06 Time: 10:28:22 CPU Time: 0 0: 6:19.74 ( 379.74 sec) ASCII
 3201     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3202     Date: 05/18/06 Time: 10:28:22 CPU Time: 0 0: 6:19.74 ( 379.74 sec) Binary
 3207     *****************************************************************************
 3208     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3209     * Completed: 05/18/06 at 10:28:22 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3210     *****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 373

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_VMS82_V500_ES47_TEST7_R001.OUT;1
```

BF2_QB0600_ES47_TEST7_V002_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:22:05 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
   62     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_TEST7_R002_QA0500.INP;1
   62     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
   67     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_CLOSURE.DAT;1
   67     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   72     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   72     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
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```
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.BIN;1
   82     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R002]BF2_VMS82_V500_ES47_TEST7_R002.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
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240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
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  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ----------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 1.409000E+00
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 1.409000E+00
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.036000E+00
 1114     H2O coefficient = -1.927900E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
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1119     MgO coefficient = 0.000000E+00
1120     Mg(OH)2 coefficient = 0.000000E+00
1121     MgCO3 coefficient = 0.000000E+00
1123     Stoichiometric coeff's for Rxn 2:
1124     H2 coefficient = 1.409000E+00
1125     H2O coefficient = 0.000000E+00
1126     Fe coefficient = 0.000000E+00
1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
1145     Stoichiometric coeff's for Rxn 4:
1146     H2 coefficient = 0.000000E+00
1147     H2O coefficient = 0.000000E+00
1148     Fe coefficient = 0.000000E+00
1149     Bio coefficient = 0.000000E+00
1150     Fe(OH)2 coefficient = 0.000000E+00
1151     FeS coefficient = 0.000000E+00
1152     MgO coefficient = 0.000000E+00
1153     Mg(OH)2 coefficient = 0.000000E+00
1154     MgCO3 coefficient = 0.000000E+00
1156     Stoichiometric coeff's for Rxn 5:
1157     H2 coefficient = 0.000000E+00
1158     H2O coefficient = 0.000000E+00
1159     Fe coefficient = 0.000000E+00
1160     Bio coefficient = 0.000000E+00
1161     Fe(OH)2 coefficient = 0.000000E+00
1162     FeS coefficient = 0.000000E+00
1163     MgO coefficient = 0.000000E+00
1164     Mg(OH)2 coefficient = 0.000000E+00
1165     MgCO3 coefficient = 0.000000E+00
1167     Stoichiometric coeff's for Rxn 6:
1168     H2 coefficient = 0.000000E+00
1169     H2O coefficient = 0.000000E+00
1170     Fe coefficient = 0.000000E+00
1171     Bio coefficient = 0.000000E+00
1172     Fe(OH)2 coefficient = 0.000000E+00
1173     FeS coefficient = 0.000000E+00
1174     MgO coefficient = 0.000000E+00
1175     Mg(OH)2 coefficient = 0.000000E+00
1176     MgCO3 coefficient = 0.000000E+00
1178     Stoichiometric coeff's for Rxn 7:
1179     H2 coefficient = 0.000000E+00
1180     H2O coefficient = 0.000000E+00
1181     Fe coefficient = 0.000000E+00
1182     Bio coefficient = 0.000000E+00
1183     Fe(OH)2 coefficient = 0.000000E+00
1184     FeS coefficient = 0.000000E+00
1185     MgO coefficient = 0.000000E+00
1186     Mg(OH)2 coefficient = 0.000000E+00
1187     MgCO3 coefficient = 0.000000E+00
1189     Wicking term (SATWICK) = 0.000000E+00
1190     Humid rates to be smoothed? (LARXN) = T
1191     Concentration rates to be smoothed? (LARXN2) = F
1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
```

```
 1067    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068    Gas coefficient = 1.036000E+00
 1069    H2O coefficient = 1.927900E+00
 1070    Fe coefficient = 1.000000E+00
 1072    Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073    Gas coefficient = 1.409000E+00
 1074    H2O coefficient = 0.000000E+00
 1075    Bio coefficient = 1.000000E+00
 1077    Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1200    Molecular weights (WM):
 1201    Fe(OH)2: 8.9862E-02 kg/mol
 1202    FeS: 8.7900E-02 kg/mol
 1203    MgO: 4.0304E-02 kg/mol
 1204    Mg(OH)2: 5.8320E-02 kg/mol
 1205    MgCO3: 8.4314E-02 kg/mol
 1207    Densities (DEN(1-4)):
 1208    Fe: 7.8700E+03 kg/m3
 1209    Fe(OH)2: 3.4000E+03 kg/m3
 1210    FeS: 4.7000E+03 kg/m3
 1211    Bio: 1.1000E+03 kg/m3
 1213    Densities (DEN(5-8)):
 1214    MgO: 3.6000E+03 kg/m3
 1215    Mg(OH)2: 2.3700E+03 kg/m3
 1216    MgCO3: 3.0500E+03 kg/m3
 1217    SALT: 2.1700E+03 kg/m3
 1219    Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1083    Wicking term (SATWICK) = 0.000000E+00
 1084    Humid rates to be smoothed? (LARXN) = T
 1085    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087    Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1233    PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234    PHILOWER = Lower porosity limit in permeability-porosity expression
 1235    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236    Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237    4 1.480000E+07 3.155700E+12 1 F
 1238    MODPERM Parameters
 1239    Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240    4 5.584700E-12 0.000000E+00
 1242    Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1101    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102    Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103    4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105    Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1260    *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263    *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266    *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269    *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272    *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
************************************************************************************************
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1123    *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126    *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1772     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 1773     CPU Time (total for run) = 21.05 sec = 0.00585 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 1626     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1627     CPU Time (total for run) = 18.18 sec = 0.00505 hr
 1628     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 2450     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2456     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 ( 23.85 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2459     Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 ( 27.82 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2462     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 ( 33.15 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
 2465     Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 ( 39.74 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.652584E+04 days
 2468     Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 ( 49.98 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.659319E+04 days
 2471     Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 ( 53.86 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.666452E+04 days
 2474     Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 ( 55.94 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.678636E+04 days
 2477     Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 ( 59.36 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.918728E+04 days
 2480     Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 ( 64.62 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 5.812157E+04 days
 2483     Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 ( 73.94 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.710952E+04 days
 2486     Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 ( 80.81 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.570947E+05 days
 2489     Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 ( 89.71 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652773E+05 days
 2492     Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 ( 95.50 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.654045E+05 days
 2495     Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 ( 101.29 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.660244E+05 days
 2498     Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 ( 108.20 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.667476E+05 days
 2501     Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 ( 110.51 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.668694E+05 days
 2504     Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 ( 112.90 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.774372E+05 days
 2507     Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 ( 118.07 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.796809E+05 days
 2510     Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 ( 124.43 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.859590E+05 days
 2513     Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 ( 128.84 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 4.871131E+05 days
 2516     Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 ( 137.71 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 4.930836E+05 days
 2519     Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 ( 143.87 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 5.535964E+05 days
 2522     Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 ( 150.76 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 5.724872E+05 days
 2525     Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 ( 159.44 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 5.734498E+05 days
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 2528     Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 ( 164.75 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 5.775623E+05 days
 2531     Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 ( 170.32 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 6.407566E+05 days
 2534     Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 ( 177.55 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 6.744634E+05 days
 2537     Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 ( 186.29 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 6.751089E+05 days
 2540     Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 ( 189.80 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 6.764870E+05 days
 2543     Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 ( 198.46 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 6.800027E+05 days
 2546     Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 ( 203.52 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 6.830843E+05 days
 2549     Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 ( 207.71 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 7.863709E+05 days
 2552     Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 ( 214.43 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 8.205738E+05 days
 2555     Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 ( 220.39 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 8.371328E+05 days
 2558     Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 9.542887E+05 days
 2561     Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 ( 235.91 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 9.666332E+05 days
 2564     Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 ( 242.50 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 9.777098E+05 days
 2567     Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 ( 247.38 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.062787E+06 days
 2570     Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 ( 255.04 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.075840E+06 days
 2573     Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 ( 262.63 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.078336E+06 days
 2576     Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 ( 268.19 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.145474E+06 days
 2579     Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.476967E+06 days
 2582     Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
 2585     Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 ( 291.06 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
 2588     Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 ( 300.29 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
 2591     Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 ( 308.46 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
 2594     Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 ( 313.90 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
 2597     Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 ( 322.32 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
 2600     Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 ( 331.82 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
 2603     Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 ( 340.41 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
 2606     Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 ( 351.68 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
 2609     Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 ( 360.22 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
 2612     Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 ( 374.52 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
 2615     Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 ( 380.25 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
 2618     Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 ( 389.47 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
 2621     Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 ( 398.23 sec) Binary
 2624     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 2304     Date: 05/18/06 Time: 10:22:23 CPU Time: 0 0: 0:18.19 ( 18.19 sec) ASCII
 2306     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:22:23 CPU Time: 0 0: 0:18.19 ( 18.19 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2310     Date: 05/18/06 Time: 10:22:25 CPU Time: 0 0: 0:20.53 ( 20.53 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2313     Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:23.88 ( 23.88 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2316     Date: 05/18/06 Time: 10:22:33 CPU Time: 0 0: 0:28.38 ( 28.38 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
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2319   Date: 05/18/06 Time: 10:22:39 CPU Time: 0 0: 0:33.99 ( 33.99 sec) Binary
2321   Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2322   Date: 05/18/06 Time: 10:22:48 CPU Time: 0 0: 0:43.23 ( 43.23 sec) Binary
2324   Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2325   Date: 05/18/06 Time: 10:22:52 CPU Time: 0 0: 0:46.75 ( 46.75 sec) Binary
2327   Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2328   Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:48.59 ( 48.59 sec) Binary
2330   Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2331   Date: 05/18/06 Time: 10:22:57 CPU Time: 0 0: 0:51.42 ( 51.42 sec) Binary
2333   Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2334   Date: 05/18/06 Time: 10:23:00 CPU Time: 0 0: 0:55.38 ( 55.38 sec) Binary
2336   Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2337   Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 1: 2.24 ( 62.24 sec) Binary
2339   Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2340   Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1: 7.31 ( 67.31 sec) Binary
2342   Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2343   Date: 05/18/06 Time: 10:23:19 CPU Time: 0 0: 1:13.89 ( 73.89 sec) Binary
2345   Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2346   Date: 05/18/06 Time: 10:23:23 CPU Time: 0 0: 1:18.15 ( 78.15 sec) Binary
2348   Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2349   Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:22.90 ( 82.90 sec) Binary
2351   Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2352   Date: 05/18/06 Time: 10:23:34 CPU Time: 0 0: 1:28.72 ( 88.72 sec) Binary
2354   Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2355   Date: 05/18/06 Time: 10:23:36 CPU Time: 0 0: 1:30.69 ( 90.69 sec) Binary
2357   Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2358   Date: 05/18/06 Time: 10:23:38 CPU Time: 0 0: 1:32.72 ( 92.72 sec) Binary
2360   Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2361   Date: 05/18/06 Time: 10:23:42 CPU Time: 0 0: 1:37.08 ( 97.08 sec) Binary
2363   Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2364   Date: 05/18/06 Time: 10:23:48 CPU Time: 0 0: 1:42.37 ( 102.37 sec) Binary
2366   Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2367   Date: 05/18/06 Time: 10:23:51 CPU Time: 0 0: 1:45.96 ( 105.96 sec) Binary
2369   Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2370   Date: 05/18/06 Time: 10:23:59 CPU Time: 0 0: 1:53.77 ( 113.77 sec) Binary
2372   Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2373   Date: 05/18/06 Time: 10:24:05 CPU Time: 0 0: 1:59.23 ( 119.23 sec) Binary
2375   Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2376   Date: 05/18/06 Time: 10:24:11 CPU Time: 0 0: 2: 5.34 ( 125.34 sec) Binary
2378   Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2379   Date: 05/18/06 Time: 10:24:18 CPU Time: 0 0: 2:12.84 ( 132.84 sec) Binary
2381   Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2382   Date: 05/18/06 Time: 10:24:23 CPU Time: 0 0: 2:17.42 ( 137.42 sec) Binary
2384   Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2385   Date: 05/18/06 Time: 10:24:28 CPU Time: 0 0: 2:22.18 ( 142.18 sec) Binary
2387   Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2388   Date: 05/18/06 Time: 10:24:34 CPU Time: 0 0: 2:28.25 ( 148.25 sec) Binary
2390   Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2391   Date: 05/18/06 Time: 10:24:41 CPU Time: 0 0: 2:35.71 ( 155.71 sec) Binary
2393   Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2394   Date: 05/18/06 Time: 10:24:44 CPU Time: 0 0: 2:38.60 ( 158.60 sec) Binary
2396   Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2397   Date: 05/18/06 Time: 10:24:51 CPU Time: 0 0: 2:45.92 ( 165.92 sec) Binary
2399   Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2400   Date: 05/18/06 Time: 10:24:56 CPU Time: 0 0: 2:50.45 ( 170.45 sec) Binary
2402   Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2403   Date: 05/18/06 Time: 10:24:59 CPU Time: 0 0: 2:53.87 ( 173.87 sec) Binary
2405   Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2406   Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 2:59.95 ( 179.95 sec) Binary
2408   Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2409   Date: 05/18/06 Time: 10:25:11 CPU Time: 0 0: 3: 5.33 ( 185.33 sec) Binary
2411   Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2412   Date: 05/18/06 Time: 10:25:18 CPU Time: 0 0: 3:12.08 ( 192.08 sec) Binary
2414   Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2415   Date: 05/18/06 Time: 10:25:25 CPU Time: 0 0: 3:19.04 ( 199.04 sec) Binary
2417   Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2418   Date: 05/18/06 Time: 10:25:31 CPU Time: 0 0: 3:25.05 ( 205.05 sec) Binary
2420   Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2421   Date: 05/18/06 Time: 10:25:35 CPU Time: 0 0: 3:29.43 ( 209.43 sec) Binary
2423   Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2424   Date: 05/18/06 Time: 10:25:42 CPU Time: 0 0: 3:36.11 ( 216.11 sec) Binary
2426   Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2427   Date: 05/18/06 Time: 10:25:49 CPU Time: 0 0: 3:42.91 ( 222.91 sec) Binary
2429   Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2430   Date: 05/18/06 Time: 10:25:54 CPU Time: 0 0: 3:47.65 ( 227.65 sec) Binary
2432   Time Step No. = 960 Elapsed Time = 1.145474E+06 days
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 2433     Date: 05/18/06 Time: 10:25:59 CPU Time: 0 0: 3:52.73 ( 232.73 sec) Binary
 2435     Time Step No. = 980 Elapsed Time = 1.476967E+06 days
 2436     Date: 05/18/06 Time: 10:26:06 CPU Time: 0 0: 3:59.86 ( 239.86 sec) Binary
 2438     Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
 2439     Date: 05/18/06 Time: 10:26:13 CPU Time: 0 0: 4: 7.19 ( 247.19 sec) Binary
 2441     Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
 2442     Date: 05/18/06 Time: 10:26:21 CPU Time: 0 0: 4:15.20 ( 255.20 sec) Binary
 2444     Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
 2445     Date: 05/18/06 Time: 10:26:28 CPU Time: 0 0: 4:21.94 ( 261.94 sec) Binary
 2447     Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
 2448     Date: 05/18/06 Time: 10:26:33 CPU Time: 0 0: 4:26.56 ( 266.56 sec) Binary
 2450     Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
 2451     Date: 05/18/06 Time: 10:26:40 CPU Time: 0 0: 4:33.63 ( 273.63 sec) Binary
 2453     Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
 2454     Date: 05/18/06 Time: 10:26:47 CPU Time: 0 0: 4:41.23 ( 281.23 sec) Binary
 2456     Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
 2457     Date: 05/18/06 Time: 10:26:54 CPU Time: 0 0: 4:48.02 ( 288.02 sec) Binary
 2459     Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
 2460     Date: 05/18/06 Time: 10:27:03 CPU Time: 0 0: 4:57.05 ( 297.05 sec) Binary
 2462     Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
 2463     Date: 05/18/06 Time: 10:27:10 CPU Time: 0 0: 5: 3.82 ( 303.82 sec) Binary
 2465     Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
 2466     Date: 05/18/06 Time: 10:27:21 CPU Time: 0 0: 5:14.61 ( 314.61 sec) Binary
 2468     Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
 2469     Date: 05/18/06 Time: 10:27:25 CPU Time: 0 0: 5:18.96 ( 318.96 sec) Binary
 2471     Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
 2472     Date: 05/18/06 Time: 10:27:32 CPU Time: 0 0: 5:26.07 ( 326.07 sec) Binary
 2474     Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
 2475     Date: 05/18/06 Time: 10:27:39 CPU Time: 0 0: 5:32.88 ( 332.88 sec) Binary
 2478     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 2640     CPU Time (this time step) = 0.34 sec = 0.00009 hr
 2641     CPU Time (total for run) = 402.27 sec = 0.11174 hr
 2642     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 2494     CPU Time (this time step) = 0.26 sec = 0.00007 hr
 2495     CPU Time (total for run) = 336.01 sec = 0.09334 hr
 2496     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 3318     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) ASCII
 3320     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3321     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) Binary
 3326     ****************************************************************************
 3327     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3328     * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3329     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
 3172     Date: 05/18/06 Time: 10:27:42 CPU Time: 0 0: 5:36.03 ( 336.03 sec) ASCII
 3174     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3175     Date: 05/18/06 Time: 10:27:42 CPU Time: 0 0: 5:36.03 ( 336.03 sec) Binary
 3180     ****************************************************************************
 3181     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3182     * Completed: 05/18/06 at 10:27:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3183     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 355

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_VMS82_V500_ES47_TEST7_R002.OUT;1
```

BF2_QB0600_ES47_TEST7_V003_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
```

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    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:22:10 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
   62     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_TEST7_R003_QA0500.INP;1
   62     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
   67     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_CLOSURE.DAT;1
   67     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   72     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   72     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
   77     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.SUM;1
   77     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
   82     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.BIN;1
   82     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
   87     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R003]BF2_VMS82_V500_ES47_TEST7_R003.ROT;1
   87     ************************************************************************
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
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53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
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  275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
  828     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
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 950     TOL = 1.0000E-02
 951     SOCEFFMIN = 1.0000E-03
 953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 926     Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1086     Intrinsic reaction rate constants? (LINTRIN): F
1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
1096     MgO hydration reaction rate constants:
1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100     Gas generation factors for biodegradation reaction:
1101     Waste Area # 1
1102     H2/H2S production (RXH2S) = 1.277000E+00
1103     CO2 production (RXCO2) = 0.000000E+00
1105     Gas generation factors for biodegradation reaction:
1106     Waste Area # 2
1107     H2/H2S production (RXH2S) = 1.277000E+00
1108     CO2 production (RXCO2) = 0.000000E+00
1110     Saturation cutoff value (SOCMIN): 0.000000E+00
1112     Stoichiometric coeff's for Rxn 1:
1113     H2 coefficient = 1.071700E+00
1114     H2O coefficient = -1.856600E+00
1115     Fe coefficient = -1.000000E+00
1116     Bio coefficient = 0.000000E+00
1117     Fe(OH)2 coefficient = 0.000000E+00
1118     FeS coefficient = 0.000000E+00
1119     MgO coefficient = 0.000000E+00
1120     Mg(OH)2 coefficient = 0.000000E+00
1121     MgCO3 coefficient = 0.000000E+00
1123     Stoichiometric coeff's for Rxn 2:
1124     H2 coefficient = 1.277000E+00
1125     H2O coefficient = 0.000000E+00
1126     Fe coefficient = 0.000000E+00
1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
1145     Stoichiometric coeff's for Rxn 4:
1146     H2 coefficient = 0.000000E+00
1147     H2O coefficient = 0.000000E+00
1148     Fe coefficient = 0.000000E+00
1149     Bio coefficient = 0.000000E+00
1150     Fe(OH)2 coefficient = 0.000000E+00
1151     FeS coefficient = 0.000000E+00
1152     MgO coefficient = 0.000000E+00
1153     Mg(OH)2 coefficient = 0.000000E+00
1154     MgCO3 coefficient = 0.000000E+00
1156     Stoichiometric coeff's for Rxn 5:
1157     H2 coefficient = 0.000000E+00
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 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.071700E+00
 1069     H2O coefficient = 1.856600E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.277000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.62 sec = 0.00656 hr
 1774    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 19.04 sec = 0.00529 hr
 1628    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 2450     Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.290116E-01 days
 2456     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 ( 25.67 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 7.082940E+00 days
 2459     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 ( 28.88 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 2.340221E+02 days
 2462     Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 ( 33.00 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.227802E+03 days
 2465     Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 ( 37.92 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.172601E+04 days
 2468     Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 ( 45.69 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 ( 59.17 sec) Binary
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2473    Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474    Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 ( 62.14 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477    Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 ( 65.32 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480    Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 ( 68.54 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483    Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 ( 73.49 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486    Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 ( 75.14 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489    Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 ( 78.69 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492    Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 ( 83.08 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495    Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 ( 92.44 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498    Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 ( 102.55 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501    Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 ( 109.23 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504    Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 ( 117.52 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507    Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 ( 128.15 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510    Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 ( 138.14 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513    Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 ( 144.26 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516    Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 ( 150.18 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519    Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 ( 158.04 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522    Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 ( 160.56 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525    Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 ( 162.53 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528    Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 ( 168.51 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531    Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 ( 178.94 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534    Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 ( 187.22 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537    Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 ( 194.65 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540    Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 ( 200.17 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543    Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 ( 207.30 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546    Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 ( 215.27 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549    Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 ( 221.21 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552    Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 ( 229.50 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555    Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558    Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 ( 247.46 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561    Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 ( 253.51 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564    Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 ( 260.80 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567    Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 ( 268.62 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570    Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 ( 275.61 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573    Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 ( 284.43 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576    Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 ( 290.23 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579    Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 ( 297.30 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582    Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 ( 303.90 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585    Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 ( 309.97 sec) Binary
```

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 2587     Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
 2588     Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 ( 319.00 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
 2591     Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 ( 326.37 sec) Binary
 2594     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 2304     Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:19.05 ( 19.05 sec) ASCII
 2306     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:22:29 CPU Time: 0 0: 0:19.05 ( 19.05 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 1.290116E-01 days
 2310     Date: 05/18/06 Time: 10:22:31 CPU Time: 0 0: 0:20.68 ( 20.68 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 7.082940E+00 days
 2313     Date: 05/18/06 Time: 10:22:33 CPU Time: 0 0: 0:23.25 ( 23.25 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 2.340221E+02 days
 2316     Date: 05/18/06 Time: 10:22:36 CPU Time: 0 0: 0:26.54 ( 26.54 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 2.227802E+03 days
 2319     Date: 05/18/06 Time: 10:22:41 CPU Time: 0 0: 0:30.60 ( 30.60 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 2.172601E+04 days
 2322     Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:37.20 ( 37.20 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2325     Date: 05/18/06 Time: 10:22:59 CPU Time: 0 0: 0:48.65 ( 48.65 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2328     Date: 05/18/06 Time: 10:23:01 CPU Time: 0 0: 0:51.20 ( 51.20 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.652436E+04 days
 2331     Date: 05/18/06 Time: 10:23:04 CPU Time: 0 0: 0:54.17 ( 54.17 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 3.652878E+04 days
 2334     Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 0:57.18 ( 57.18 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 3.664309E+04 days
 2337     Date: 05/18/06 Time: 10:23:12 CPU Time: 0 0: 1: 1.85 ( 61.85 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 3.666734E+04 days
 2340     Date: 05/18/06 Time: 10:23:13 CPU Time: 0 0: 1: 3.40 ( 63.40 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 3.683266E+04 days
 2343     Date: 05/18/06 Time: 10:23:17 CPU Time: 0 0: 1: 6.78 ( 66.78 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 4.360968E+04 days
 2346     Date: 05/18/06 Time: 10:23:21 CPU Time: 0 0: 1:10.60 ( 70.60 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 1.385826E+05 days
 2349     Date: 05/18/06 Time: 10:23:28 CPU Time: 0 0: 1:18.31 ( 78.31 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 1.471271E+05 days
 2352     Date: 05/18/06 Time: 10:23:37 CPU Time: 0 0: 1:26.53 ( 86.53 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 1.527317E+05 days
 2355     Date: 05/18/06 Time: 10:23:42 CPU Time: 0 0: 1:31.96 ( 91.96 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 1.710125E+05 days
 2358     Date: 05/18/06 Time: 10:23:49 CPU Time: 0 0: 1:38.68 ( 98.68 sec) Binary
 2360     Time Step No. = 480 Elapsed Time = 2.573034E+05 days
 2361     Date: 05/18/06 Time: 10:23:57 CPU Time: 0 0: 1:47.27 ( 107.27 sec) Binary
 2363     Time Step No. = 500 Elapsed Time = 2.971722E+05 days
 2364     Date: 05/18/06 Time: 10:24:05 CPU Time: 0 0: 1:55.21 ( 115.21 sec) Binary
 2366     Time Step No. = 520 Elapsed Time = 3.652468E+05 days
 2367     Date: 05/18/06 Time: 10:24:10 CPU Time: 0 0: 2: 0.08 ( 120.08 sec) Binary
 2369     Time Step No. = 540 Elapsed Time = 3.653773E+05 days
 2370     Date: 05/18/06 Time: 10:24:15 CPU Time: 0 0: 2: 4.80 ( 124.80 sec) Binary
 2372     Time Step No. = 560 Elapsed Time = 3.659289E+05 days
 2373     Date: 05/18/06 Time: 10:24:21 CPU Time: 0 0: 2:11.01 ( 131.01 sec) Binary
 2375     Time Step No. = 580 Elapsed Time = 3.665472E+05 days
 2376     Date: 05/18/06 Time: 10:24:23 CPU Time: 0 0: 2:13.01 ( 133.01 sec) Binary
 2378     Time Step No. = 600 Elapsed Time = 3.666447E+05 days
 2379     Date: 05/18/06 Time: 10:24:25 CPU Time: 0 0: 2:14.58 ( 134.58 sec) Binary
 2381     Time Step No. = 620 Elapsed Time = 3.703658E+05 days
 2382     Date: 05/18/06 Time: 10:24:30 CPU Time: 0 0: 2:19.35 ( 139.35 sec) Binary
 2384     Time Step No. = 640 Elapsed Time = 3.798337E+05 days
 2385     Date: 05/18/06 Time: 10:24:38 CPU Time: 0 0: 2:27.59 ( 147.59 sec) Binary
 2387     Time Step No. = 660 Elapsed Time = 3.939257E+05 days
 2388     Date: 05/18/06 Time: 10:24:44 CPU Time: 0 0: 2:34.22 ( 154.22 sec) Binary
 2390     Time Step No. = 680 Elapsed Time = 3.962038E+05 days
 2391     Date: 05/18/06 Time: 10:24:51 CPU Time: 0 0: 2:40.20 ( 160.20 sec) Binary
 2393     Time Step No. = 700 Elapsed Time = 4.052779E+05 days
 2394     Date: 05/18/06 Time: 10:24:55 CPU Time: 0 0: 2:44.78 ( 164.78 sec) Binary
 2396     Time Step No. = 720 Elapsed Time = 4.063093E+05 days
 2397     Date: 05/18/06 Time: 10:25:01 CPU Time: 0 0: 2:50.58 ( 170.58 sec) Binary
 2399     Time Step No. = 740 Elapsed Time = 4.122326E+05 days
 2400     Date: 05/18/06 Time: 10:25:08 CPU Time: 0 0: 2:57.32 ( 177.32 sec) Binary
 2402     Time Step No. = 760 Elapsed Time = 4.197205E+05 days
 2403     Date: 05/18/06 Time: 10:25:13 CPU Time: 0 0: 3: 2.11 ( 182.11 sec) Binary
 2405     Time Step No. = 780 Elapsed Time = 4.477240E+05 days
 2406     Date: 05/18/06 Time: 10:25:19 CPU Time: 0 0: 3: 8.62 ( 188.62 sec) Binary
```

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 2408     Time Step No. = 800 Elapsed Time = 5.300302E+05 days
 2409     Date: 05/18/06 Time: 10:25:27 CPU Time: 0 0: 3:15.94 ( 195.94 sec) Binary
 2411     Time Step No. = 820 Elapsed Time = 6.962797E+05 days
 2412     Date: 05/18/06 Time: 10:25:34 CPU Time: 0 0: 3:22.66 ( 202.66 sec) Binary
 2414     Time Step No. = 840 Elapsed Time = 6.976745E+05 days
 2415     Date: 05/18/06 Time: 10:25:39 CPU Time: 0 0: 3:27.60 ( 207.60 sec) Binary
 2417     Time Step No. = 860 Elapsed Time = 7.510302E+05 days
 2418     Date: 05/18/06 Time: 10:25:44 CPU Time: 0 0: 3:33.41 ( 213.41 sec) Binary
 2420     Time Step No. = 880 Elapsed Time = 1.039742E+06 days
 2421     Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:39.55 ( 219.55 sec) Binary
 2423     Time Step No. = 900 Elapsed Time = 1.429742E+06 days
 2424     Date: 05/18/06 Time: 10:25:56 CPU Time: 0 0: 3:45.28 ( 225.28 sec) Binary
 2426     Time Step No. = 920 Elapsed Time = 1.739749E+06 days
 2427     Date: 05/18/06 Time: 10:26:03 CPU Time: 0 0: 3:52.16 ( 232.16 sec) Binary
 2429     Time Step No. = 940 Elapsed Time = 2.139749E+06 days
 2430     Date: 05/18/06 Time: 10:26:08 CPU Time: 0 0: 3:56.65 ( 236.65 sec) Binary
 2432     Time Step No. = 960 Elapsed Time = 2.507874E+06 days
 2433     Date: 05/18/06 Time: 10:26:13 CPU Time: 0 0: 4: 2.15 ( 242.15 sec) Binary
 2435     Time Step No. = 980 Elapsed Time = 2.775406E+06 days
 2436     Date: 05/18/06 Time: 10:26:19 CPU Time: 0 0: 4: 7.48 ( 247.48 sec) Binary
 2438     Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
 2439     Date: 05/18/06 Time: 10:26:24 CPU Time: 0 0: 4:12.38 ( 252.38 sec) Binary
 2441     Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
 2442     Date: 05/18/06 Time: 10:26:31 CPU Time: 0 0: 4:19.89 ( 259.89 sec) Binary
 2444     Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
 2445     Date: 05/18/06 Time: 10:26:37 CPU Time: 0 0: 4:26.27 ( 266.27 sec) Binary
 2448     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 2610     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2611     CPU Time (total for run) = 326.84 sec = 0.09079 hr
 2612     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 2464     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 2465     CPU Time (total for run) = 266.68 sec = 0.07408 hr
 2466     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 3288     Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
 3290     Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3291     Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
 3296     ****************************************************************************
 3297     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3298     * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3299     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
 3142     Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:26.70 ( 266.70 sec) ASCII
 3144     Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3145     Date: 05/18/06 Time: 10:26:38 CPU Time: 0 0: 4:26.70 ( 266.70 sec) Binary
 3150     ****************************************************************************
 3151     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3152     * Completed: 05/18/06 at 10:26:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3153     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 335

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_VMS82_V500_ES47_TEST7_R003.OUT;1
```

BF2_QB0600_ES47_TEST7_V004_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:22:15 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_TEST7_R004_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R004]BF2_VMS82_V500_ES47_TEST7_R004.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

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55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
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  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
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  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 2.152000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 2.152000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.181400E+00
 1114     H2O coefficient = -1.637200E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
 1119     MgO coefficient = 0.000000E+00
 1120     Mg(OH)2 coefficient = 0.000000E+00
 1121     MgCO3 coefficient = 0.000000E+00
 1123     Stoichiometric coeff's for Rxn 2:
 1124     H2 coefficient = 2.152000E-01
 1125     H2O coefficient = 0.000000E+00
 1126     Fe coefficient = 0.000000E+00
 1127     Bio coefficient = -1.000000E+00
 1128     Fe(OH)2 coefficient = 0.000000E+00
 1129     FeS coefficient = 0.000000E+00
 1130     MgO coefficient = 0.000000E+00
 1131     Mg(OH)2 coefficiant = 0.000000E+00
 1132     MgCO3 coefficient = 0.000000E+00
 1134     Stoichiometric coeff's for Rxn 3:
 1135     H2 coefficient = 0.000000E+00
 1136     H2O coefficient = 0.000000E+00
 1137     Fe coefficient = 0.000000E+00
 1138     Bio coefficient = 0.000000E+00
 1139     Fe(OH)2 coefficient = 0.000000E+00
 1140     FeS coefficient = 0.000000E+00
 1141     MgO coefficient = 0.000000E+00
 1142     Mg(OH)2 coefficient = 0.000000E+00
 1143     MgCO3 coefficient = 0.000000E+00
 1145     Stoichiometric coeff's for Rxn 4:
 1146     H2 coefficient = 0.000000E+00
 1147     H2O coefficient = 0.000000E+00
 1148     Fe coefficient = 0.000000E+00
 1149     Bio coefficient = 0.000000E+00
 1150     Fe(OH)2 coefficient = 0.000000E+00
 1151     FeS coefficient = 0.000000E+00
 1152     MgO coefficient = 0.000000E+00
 1153     Mg(OH)2 coefficient = 0.000000E+00
 1154     MgCO3 coefficient = 0.000000E+00
 1156     Stoichiometric coeff's for Rxn 5:
 1157     H2 coefficient = 0.000000E+00
 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
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 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.181400E+00
 1069     H2O coefficient = 1.637200E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 2.152000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
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1234    PHILOWER = Lower porosity limit in permeability-porosity expression
1235    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236    Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237    4 1.480000E+07 3.155700E+12 1 F
1238    MODPERM Parameters
1239    Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1240    4 5.584700E-12 0.000000E+00
1242    Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1101    Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1102    Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103    4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105    Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1260    *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263    *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266    *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269    *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272    *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1123    *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126    *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1300    57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301    58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303    CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1154    47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155    48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157    CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
1772    CPU Time (this time step) = 0.13 sec = 0.00004 hr
1773    CPU Time (total for run) = 20.44 sec = 0.00568 hr
1774    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
1626    CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627    CPU Time (total for run) = 17.52 sec = 0.00487 hr
1628    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
2450    Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) ASCII
2452    Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2456    Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 ( 23.30 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2459    Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 ( 26.98 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2462    Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2465    Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 ( 37.91 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468    Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 ( 43.22 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471    Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 ( 47.32 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474    Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 ( 49.54 sec) Binary
```

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2476    Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477    Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 ( 53.73 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480    Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483    Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 ( 71.97 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486    Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 ( 75.67 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489    Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 ( 82.09 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492    Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 ( 90.02 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495    Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 ( 100.18 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498    Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 ( 105.73 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501    Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 ( 109.83 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504    Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 ( 117.23 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507    Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 ( 126.75 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510    Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 ( 133.69 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513    Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 ( 142.46 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516    Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 ( 146.63 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519    Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 ( 151.45 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522    Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 ( 158.78 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525    Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 ( 165.64 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528    Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 ( 173.36 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531    Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 ( 183.15 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534    Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 ( 186.67 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537    Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 ( 193.28 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540    Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 ( 196.15 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543    Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 ( 199.79 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546    Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 ( 204.49 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549    Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 ( 206.28 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552    Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 ( 209.52 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555    Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 ( 216.31 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558    Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 ( 224.55 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561    Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 ( 231.49 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564    Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 ( 238.81 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567    Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 ( 245.53 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570    Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 ( 252.10 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573    Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 ( 258.48 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576    Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 ( 267.88 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579    Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 ( 273.93 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582    Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 ( 280.61 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585    Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 ( 289.13 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588    Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 ( 295.44 sec) Binary
```

```
2590     Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591     Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 ( 302.26 sec) Binary
2593     Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594     Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 ( 308.69 sec) Binary
2596     Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597     Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 ( 316.31 sec) Binary
2599     Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600     Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 ( 326.84 sec) Binary
2602     Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603     Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 ( 332.76 sec) Binary
2605     Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606     Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 ( 340.87 sec) Binary
2608     Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609     Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 ( 345.77 sec) Binary
2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
2304     Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:17.53 ( 17.53 sec) ASCII
2306     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2307     Date: 05/18/06 Time: 10:22:32 CPU Time: 0 0: 0:17.54 ( 17.54 sec) Binary
2309     Time Step No. = 140 Elapsed Time = 4.883945E-01 days
2310     Date: 05/18/06 Time: 10:22:35 CPU Time: 0 0: 0:19.94 ( 19.94 sec) Binary
2312     Time Step No. = 160 Elapsed Time = 4.387923E+01 days
2313     Date: 05/18/06 Time: 10:22:38 CPU Time: 0 0: 0:23.05 ( 23.05 sec) Binary
2315     Time Step No. = 180 Elapsed Time = 1.702937E+03 days
2316     Date: 05/18/06 Time: 10:22:42 CPU Time: 0 0: 0:27.19 ( 27.19 sec) Binary
2318     Time Step No. = 200 Elapsed Time = 2.885022E+04 days
2319     Date: 05/18/06 Time: 10:22:47 CPU Time: 0 0: 0:31.85 ( 31.85 sec) Binary
2321     Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2322     Date: 05/18/06 Time: 10:22:51 CPU Time: 0 0: 0:36.03 ( 36.03 sec) Binary
2324     Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2325     Date: 05/18/06 Time: 10:22:54 CPU Time: 0 0: 0:39.34 ( 39.34 sec) Binary
2327     Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2328     Date: 05/18/06 Time: 10:22:56 CPU Time: 0 0: 0:41.24 ( 41.24 sec) Binary
2330     Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2331     Date: 05/18/06 Time: 10:23:00 CPU Time: 0 0: 0:45.05 ( 45.05 sec) Binary
2333     Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2334     Date: 05/18/06 Time: 10:23:07 CPU Time: 0 0: 0:51.63 ( 51.63 sec) Binary
2336     Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2337     Date: 05/18/06 Time: 10:23:16 CPU Time: 0 0: 1: 0.67 ( 60.67 sec) Binary
2339     Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2340     Date: 05/18/06 Time: 10:23:19 CPU Time: 0 0: 1: 3.91 ( 63.91 sec) Binary
2342     Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2343     Date: 05/18/06 Time: 10:23:25 CPU Time: 0 0: 1: 9.68 ( 69.68 sec) Binary
2345     Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2346     Date: 05/18/06 Time: 10:23:32 CPU Time: 0 0: 1:16.74 ( 76.74 sec) Binary
2348     Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2349     Date: 05/18/06 Time: 10:23:41 CPU Time: 0 0: 1:25.60 ( 85.60 sec) Binary
2351     Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2352     Date: 05/18/06 Time: 10:23:45 CPU Time: 0 0: 1:30.43 ( 90.43 sec) Binary
2354     Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2355     Date: 05/18/06 Time: 10:23:49 CPU Time: 0 0: 1:34.01 ( 94.01 sec) Binary
2357     Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2358     Date: 05/18/06 Time: 10:23:55 CPU Time: 0 0: 1:40.31 ( 100.31 sec) Binary
2360     Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2361     Date: 05/18/06 Time: 10:24:03 CPU Time: 0 0: 1:48.35 ( 108.35 sec) Binary
2363     Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2364     Date: 05/18/06 Time: 10:24:09 CPU Time: 0 0: 1:54.24 ( 114.24 sec) Binary
2366     Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2367     Date: 05/18/06 Time: 10:24:17 CPU Time: 0 0: 2: 1.64 ( 121.64 sec) Binary
2369     Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2370     Date: 05/18/06 Time: 10:24:20 CPU Time: 0 0: 2: 5.26 ( 125.26 sec) Binary
2372     Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2373     Date: 05/18/06 Time: 10:24:25 CPU Time: 0 0: 2: 9.47 ( 129.47 sec) Binary
2375     Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2376     Date: 05/18/06 Time: 10:24:31 CPU Time: 0 0: 2:15.79 ( 135.79 sec) Binary
2378     Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2379     Date: 05/18/06 Time: 10:24:36 CPU Time: 0 0: 2:21.23 ( 141.23 sec) Binary
2381     Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2382     Date: 05/18/06 Time: 10:24:43 CPU Time: 0 0: 2:27.79 ( 147.79 sec) Binary
2384     Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2385     Date: 05/18/06 Time: 10:24:52 CPU Time: 0 0: 2:36.14 ( 156.14 sec) Binary
2387     Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2388     Date: 05/18/06 Time: 10:24:54 CPU Time: 0 0: 2:39.10 ( 159.10 sec) Binary
2390     Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2391     Date: 05/18/06 Time: 10:25:00 CPU Time: 0 0: 2:44.86 ( 164.86 sec) Binary
```

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 2393     Time Step No. = 700 Elapsed Time = 3.652449E+05 days
 2394     Date: 05/18/06 Time: 10:25:03 CPU Time: 0 0: 2:47.28 ( 167.28 sec) Binary
 2396     Time Step No. = 720 Elapsed Time = 3.653298E+05 days
 2397     Date: 05/18/06 Time: 10:25:06 CPU Time: 0 0: 2:50.34 ( 170.34 sec) Binary
 2399     Time Step No. = 740 Elapsed Time = 3.665963E+05 days
 2400     Date: 05/18/06 Time: 10:25:10 CPU Time: 0 0: 2:54.45 ( 174.45 sec) Binary
 2402     Time Step No. = 760 Elapsed Time = 3.666047E+05 days
 2403     Date: 05/18/06 Time: 10:25:12 CPU Time: 0 0: 2:56.00 ( 176.00 sec) Binary
 2405     Time Step No. = 780 Elapsed Time = 3.673309E+05 days
 2406     Date: 05/18/06 Time: 10:25:15 CPU Time: 0 0: 2:58.79 ( 178.79 sec) Binary
 2408     Time Step No. = 800 Elapsed Time = 3.829760E+05 days
 2409     Date: 05/18/06 Time: 10:25:20 CPU Time: 0 0: 3: 4.61 ( 184.61 sec) Binary
 2411     Time Step No. = 820 Elapsed Time = 4.527294E+05 days
 2412     Date: 05/18/06 Time: 10:25:27 CPU Time: 0 0: 3:11.49 ( 191.49 sec) Binary
 2414     Time Step No. = 840 Elapsed Time = 5.448080E+05 days
 2415     Date: 05/18/06 Time: 10:25:33 CPU Time: 0 0: 3:17.45 ( 197.45 sec) Binary
 2417     Time Step No. = 860 Elapsed Time = 7.104959E+05 days
 2418     Date: 05/18/06 Time: 10:25:40 CPU Time: 0 0: 3:23.78 ( 203.78 sec) Binary
 2420     Time Step No. = 880 Elapsed Time = 7.696672E+05 days
 2421     Date: 05/18/06 Time: 10:25:46 CPU Time: 0 0: 3:29.64 ( 209.64 sec) Binary
 2423     Time Step No. = 900 Elapsed Time = 1.049399E+06 days
 2424     Date: 05/18/06 Time: 10:25:51 CPU Time: 0 0: 3:35.14 ( 215.14 sec) Binary
 2426     Time Step No. = 920 Elapsed Time = 1.449399E+06 days
 2427     Date: 05/18/06 Time: 10:25:57 CPU Time: 0 0: 3:40.76 ( 220.76 sec) Binary
 2429     Time Step No. = 940 Elapsed Time = 1.476205E+06 days
 2430     Date: 05/18/06 Time: 10:26:05 CPU Time: 0 0: 3:48.77 ( 228.77 sec) Binary
 2432     Time Step No. = 960 Elapsed Time = 1.728036E+06 days
 2433     Date: 05/18/06 Time: 10:26:10 CPU Time: 0 0: 3:53.86 ( 233.86 sec) Binary
 2435     Time Step No. = 980 Elapsed Time = 1.780697E+06 days
 2436     Date: 05/18/06 Time: 10:26:16 CPU Time: 0 0: 3:59.64 ( 239.64 sec) Binary
 2438     Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
 2439     Date: 05/18/06 Time: 10:26:23 CPU Time: 0 0: 4: 7.23 ( 247.23 sec) Binary
 2441     Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
 2442     Date: 05/18/06 Time: 10:26:29 CPU Time: 0 0: 4:12.87 ( 252.87 sec) Binary
 2444     Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
 2445     Date: 05/18/06 Time: 10:26:35 CPU Time: 0 0: 4:18.65 ( 258.65 sec) Binary
 2447     Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
 2448     Date: 05/18/06 Time: 10:26:41 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
 2450     Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
 2451     Date: 05/18/06 Time: 10:26:48 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
 2453     Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
 2454     Date: 05/18/06 Time: 10:26:57 CPU Time: 0 0: 4:40.92 ( 280.92 sec) Binary
 2456     Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
 2457     Date: 05/18/06 Time: 10:27:03 CPU Time: 0 0: 4:46.36 ( 286.36 sec) Binary
 2459     Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
 2460     Date: 05/18/06 Time: 10:27:10 CPU Time: 0 0: 4:53.48 ( 293.48 sec) Binary
 2462     Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
 2463     Date: 05/18/06 Time: 10:27:14 CPU Time: 0 0: 4:57.76 ( 297.76 sec) Binary
 2466     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 2628     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2629     CPU Time (total for run) = 346.30 sec = 0.09619 hr
 2630     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
 2482     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2483     CPU Time (total for run) = 298.23 sec = 0.08284 hr
 2484     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 3306     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
 3308     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
 3314     ****************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
 3160     Date: 05/18/06 Time: 10:27:15 CPU Time: 0 0: 4:58.25 ( 298.25 sec) ASCII
 3162     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3163     Date: 05/18/06 Time: 10:27:15 CPU Time: 0 0: 4:58.25 ( 298.25 sec) Binary
 3168     ****************************************************************************
```

```
 3169     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3170     * Completed: 05/18/06 at 10:27:15 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3171     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 347

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_VMS82_V500_ES47_TEST7_R004.OUT;1
```

BF2_QB0600_ES47_TEST7_V005_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:27:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_TEST7_R005_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   72     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005.SUM;1
   77     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005.BIN;1
   82     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.ROT;1
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   87      ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R005]BF2_VMS82_V500_ES47_TEST7_R005.ROT;1
   87      ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
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 257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 264     112 0 0 H2OFLOWIN Water inflow rate kg/s
 265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
 200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
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  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
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  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 8.629000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 8.629000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.216300E+00
 1114     H2O coefficient = -1.567300E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
 1119     MgO coefficient = 0.000000E+00
 1120     Mg(OH)2 coefficient = 0.000000E+00
 1121     MgCO3 coefficient = 0.000000E+00
 1123     Stoichiometric coeff's for Rxn 2:
 1124     H2 coefficient = 8.629000E-01
 1125     H2O coefficient = 0.000000E+00
 1126     Fe coefficient = 0.000000E+00
 1127     Bio coefficient = -1.000000E+00
 1128     Fe(OH)2 coefficient = 0.000000E+00
 1129     FeS coefficient = 0.000000E+00
 1130     MgO coefficient = 0.000000E+00
 1131     Mg(OH)2 coefficient = 0.000000E+00
 1132     MgCO3 coefficient = 0.000000E+00
 1134     Stoichiometric coeff's for Rxn 3:
 1135     H2 coefficient = 0.000000E+00
 1136     H2O coefficient = 0.000000E+00
 1137     Fe coefficient = 0.000000E+00
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 1138     Bio coefficient = 0.000000E+00
 1139     Fe(OH)2 coefficient = 0.000000E+00
 1140     FeS coefficient = 0.000000E+00
 1141     MgO coefficient = 0.000000E+00
 1142     Mg(OH)2 coefficient = 0.000000E+00
 1143     MgCO3 coefficient = 0.000000E+00
 1145     Stoichiometric coeff's for Rxn 4:
 1146     H2 coefficient = 0.000000E+00
 1147     H2O coefficient = 0.000000E+00
 1148     Fe coefficient = 0.000000E+00
 1149     Bio coefficient = 0.000000E+00
 1150     Fe(OH)2 coefficient = 0.000000E+00
 1151     FeS coefficient = 0.000000E+00
 1152     MgO coefficient = 0.000000E+00
 1153     Mg(OH)2 coefficient = 0.000000E+00
 1154     MgCO3 coefficient = 0.000000E+00
 1156     Stoichiometric coeff's for Rxn 5:
 1157     H2 coefficient = 0.000000E+00
 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.216300E+00
 1069     H2O coefficient = 1.567300E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 8.629000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
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 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
*********************************************************************************************************
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
*********************************************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 25.47 sec = 0.00707 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 1626     CPU Time (this time step) = 0.10 sec = 0.00003 hr
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 1627    CPU Time (total for run) = 20.66 sec = 0.00574 hr
 1628    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 2450    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 ( 25.49 sec) ASCII
 2452    Time Step No. = 155 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 ( 25.50 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.602936E-04 days
 2456    Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 ( 27.35 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 2.060139E-02 days
 2459    Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 ( 30.48 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 1.665882E+00 days
 2462    Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 ( 33.96 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 6.830542E+01 days
 2465    Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 ( 37.78 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 9.026859E+02 days
 2468    Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 ( 43.13 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 5.565489E+03 days
 2471    Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 1.541474E+04 days
 2474    Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 ( 58.84 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 2.464433E+04 days
 2477    Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 ( 66.56 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 2.540653E+04 days
 2480    Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 ( 73.95 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 2.583713E+04 days
 2483    Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 ( 77.79 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 3.095805E+04 days
 2486    Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 ( 85.40 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 3.652922E+04 days
 2489    Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 ( 94.85 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 3.666828E+04 days
 2492    Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 ( 99.07 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 3.667257E+04 days
 2495    Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 ( 100.93 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 3.689196E+04 days
 2498    Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 ( 105.02 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 3.751198E+04 days
 2501    Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
 2503    Time Step No. = 480 Elapsed Time = 3.782453E+04 days
 2504    Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 ( 114.50 sec) Binary
 2506    Time Step No. = 500 Elapsed Time = 4.141513E+04 days
 2507    Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 ( 121.30 sec) Binary
 2509    Time Step No. = 520 Elapsed Time = 5.494758E+04 days
 2510    Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 ( 130.13 sec) Binary
 2512    Time Step No. = 540 Elapsed Time = 5.880383E+04 days
 2513    Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 ( 137.84 sec) Binary
 2515    Time Step No. = 560 Elapsed Time = 6.677868E+04 days
 2516    Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 ( 146.79 sec) Binary
 2518    Time Step No. = 580 Elapsed Time = 7.749503E+04 days
 2519    Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 ( 153.96 sec) Binary
 2521    Time Step No. = 600 Elapsed Time = 8.560082E+04 days
 2522    Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 ( 164.64 sec) Binary
 2524    Time Step No. = 620 Elapsed Time = 8.561748E+04 days
 2525    Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 ( 168.16 sec) Binary
 2527    Time Step No. = 640 Elapsed Time = 8.706305E+04 days
 2528    Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 ( 172.72 sec) Binary
 2530    Time Step No. = 660 Elapsed Time = 8.948916E+04 days
 2531    Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 ( 178.99 sec) Binary
 2533    Time Step No. = 680 Elapsed Time = 1.244434E+05 days
 2534    Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 ( 188.21 sec) Binary
 2536    Time Step No. = 700 Elapsed Time = 1.293962E+05 days
 2537    Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 ( 197.38 sec) Binary
 2539    Time Step No. = 720 Elapsed Time = 2.352116E+05 days
 2540    Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 ( 205.58 sec) Binary
 2542    Time Step No. = 740 Elapsed Time = 2.631586E+05 days
 2543    Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 ( 216.36 sec) Binary
 2545    Time Step No. = 760 Elapsed Time = 2.692618E+05 days
 2546    Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 ( 223.24 sec) Binary
 2548    Time Step No. = 780 Elapsed Time = 3.652431E+05 days
 2549    Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 ( 233.23 sec) Binary
 2551    Time Step No. = 800 Elapsed Time = 3.652437E+05 days
 2552    Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 ( 236.50 sec) Binary
 2554    Time Step No. = 820 Elapsed Time = 3.652474E+05 days
 2555    Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 ( 242.16 sec) Binary
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2557 Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558 Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 ( 248.40 sec) Binary
2560 Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561 Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 ( 257.21 sec) Binary
2563 Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564 Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 ( 262.90 sec) Binary
2566 Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567 Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 ( 265.15 sec) Binary
2569 Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570 Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 ( 270.82 sec) Binary
2572 Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573 Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 ( 278.50 sec) Binary
2575 Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576 Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 ( 287.16 sec) Binary
2578 Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579 Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 ( 294.86 sec) Binary
2581 Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582 Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 ( 302.35 sec) Binary
2584 Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585 Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 ( 309.10 sec) Binary
2587 Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588 Date: 02/14/07 Time: 09:50:00 CPU Time: 0 0: 5:18.53 ( 318.53 sec) Binary
2590 Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591 Date: 02/14/07 Time: 09:50:05 CPU Time: 0 0: 5:23.87 ( 323.87 sec) Binary
2593 Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594 Date: 02/14/07 Time: 09:50:14 CPU Time: 0 0: 5:33.29 ( 333.29 sec) Binary
2596 Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597 Date: 02/14/07 Time: 09:50:20 CPU Time: 0 0: 5:38.85 ( 338.85 sec) Binary
2599 Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600 Date: 02/14/07 Time: 09:50:28 CPU Time: 0 0: 5:47.25 ( 347.25 sec) Binary
2602 Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603 Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 5:55.37 ( 355.37 sec) Binary
2605 Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606 Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 6: 0.84 ( 360.84 sec) Binary
2608 Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609 Date: 02/14/07 Time: 09:50:52 CPU Time: 0 0: 6:10.55 ( 370.55 sec) Binary
2611 Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612 Date: 02/14/07 Time: 09:51:01 CPU Time: 0 0: 6:19.69 ( 379.69 sec) Binary
2614 Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615 Date: 02/14/07 Time: 09:51:09 CPU Time: 0 0: 6:27.75 ( 387.75 sec) Binary
2617 Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618 Date: 02/14/07 Time: 09:51:18 CPU Time: 0 0: 6:36.54 ( 396.54 sec) Binary
2620 Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621 Date: 02/14/07 Time: 09:51:26 CPU Time: 0 0: 6:44.37 ( 404.37 sec) Binary
2623 Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624 Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 6:54.16 ( 414.16 sec) Binary
2626 Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627 Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 7: 3.87 ( 423.87 sec) Binary
2629 Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630 Date: 02/14/07 Time: 09:51:54 CPU Time: 0 0: 7:12.96 ( 432.96 sec) Binary
2632 Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633 Date: 02/14/07 Time: 09:52:02 CPU Time: 0 0: 7:20.92 ( 440.92 sec) Binary
2635 Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636 Date: 02/14/07 Time: 09:52:11 CPU Time: 0 0: 7:29.74 ( 449.74 sec) Binary
2638 Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639 Date: 02/14/07 Time: 09:52:18 CPU Time: 0 0: 7:37.11 ( 457.11 sec) Binary
2641 Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642 Date: 02/14/07 Time: 09:52:29 CPU Time: 0 0: 7:47.71 ( 467.71 sec) Binary
2644 Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645 Date: 02/14/07 Time: 09:52:34 CPU Time: 0 0: 7:53.12 ( 473.12 sec) Binary
2647 Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648 Date: 02/14/07 Time: 09:52:44 CPU Time: 0 0: 8: 3.02 ( 483.02 sec) Binary
2650 Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651 Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 8:12.59 ( 492.59 sec) Binary
2653 Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654 Date: 02/14/07 Time: 09:53:03 CPU Time: 0 0: 8:21.75 ( 501.75 sec) Binary
2656 Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657 Date: 02/14/07 Time: 09:53:11 CPU Time: 0 0: 8:29.74 ( 509.74 sec) Binary
2659 Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660 Date: 02/14/07 Time: 09:53:19 CPU Time: 0 0: 8:37.16 ( 517.16 sec) Binary
2662 Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663 Date: 02/14/07 Time: 09:53:27 CPU Time: 0 0: 8:46.04 ( 526.04 sec) Binary
2665 Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666 Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:53.11 ( 533.11 sec) Binary
2668 Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669 Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 9: 0.50 ( 540.50 sec) Binary
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2671     Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672     Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 9: 9.17 ( 549.17 sec) Binary
2674     Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675     Date: 02/14/07 Time: 09:53:55 CPU Time: 0 0: 9:13.49 ( 553.49 sec) Binary
2677     Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678     Date: 02/14/07 Time: 09:54:01 CPU Time: 0 0: 9:19.25 ( 559.25 sec) Binary
2680     Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681     Date: 02/14/07 Time: 09:54:09 CPU Time: 0 0: 9:27.97 ( 567.97 sec) Binary
2683     Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684     Date: 02/14/07 Time: 09:54:15 CPU Time: 0 0: 9:33.22 ( 573.22 sec) Binary
2686     Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687     Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 9:46.68 ( 586.68 sec) Binary
2689     Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690     Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 9:56.65 ( 596.65 sec) Binary
2692     Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693     Date: 02/14/07 Time: 09:54:44 CPU Time: 0 0:10: 2.16 ( 602.16 sec) Binary
2695     Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696     Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0:10:10.52 ( 610.52 sec) Binary
2698     Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699     Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0:10:18.75 ( 618.75 sec) Binary
2701     Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702     Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 ( 626.21 sec) Binary
2704     Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705     Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 ( 634.59 sec) Binary
2707     Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708     Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 ( 644.40 sec) Binary
2710     Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 ( 653.66 sec) Binary
2713     Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714     Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 ( 662.79 sec) Binary
2716     Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717     Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 ( 672.94 sec) Binary
2719     Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720     Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 ( 682.75 sec) Binary
2722     Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723     Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 ( 691.45 sec) Binary
2725     Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726     Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 ( 696.25 sec) Binary
2729     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
2304     Date: 05/18/06 Time: 10:27:57 CPU Time: 0 0: 0:20.68 ( 20.68 sec) ASCII
2306     Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2307     Date: 05/18/06 Time: 10:27:57 CPU Time: 0 0: 0:20.68 ( 20.68 sec) Binary
2309     Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2310     Date: 05/18/06 Time: 10:27:59 CPU Time: 0 0: 0:22.10 ( 22.10 sec) Binary
2312     Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2313     Date: 05/18/06 Time: 10:28:01 CPU Time: 0 0: 0:24.46 ( 24.46 sec) Binary
2315     Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2316     Date: 05/18/06 Time: 10:28:04 CPU Time: 0 0: 0:27.32 ( 27.32 sec) Binary
2318     Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2319     Date: 05/18/06 Time: 10:28:07 CPU Time: 0 0: 0:30.34 ( 30.34 sec) Binary
2321     Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2322     Date: 05/18/06 Time: 10:28:11 CPU Time: 0 0: 0:34.61 ( 34.61 sec) Binary
2324     Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2325     Date: 05/18/06 Time: 10:28:17 CPU Time: 0 0: 0:40.17 ( 40.17 sec) Binary
2327     Time Step No. = 280 Elapsed Time = 1.541474E+04 days
2328     Date: 05/18/06 Time: 10:28:25 CPU Time: 0 0: 0:47.85 ( 47.85 sec) Binary
2330     Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2331     Date: 05/18/06 Time: 10:28:31 CPU Time: 0 0: 0:54.20 ( 54.20 sec) Binary
2333     Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2334     Date: 05/18/06 Time: 10:28:37 CPU Time: 0 0: 1: 0.17 ( 60.17 sec) Binary
2336     Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2337     Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 1: 3.34 ( 63.34 sec) Binary
2339     Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2340     Date: 05/18/06 Time: 10:28:46 CPU Time: 0 0: 1: 9.39 ( 69.39 sec) Binary
2342     Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2343     Date: 05/18/06 Time: 10:28:54 CPU Time: 0 0: 1:17.23 ( 77.23 sec) Binary
2345     Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2346     Date: 05/18/06 Time: 10:28:58 CPU Time: 0 0: 1:20.79 ( 80.79 sec) Binary
2348     Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2349     Date: 05/18/06 Time: 10:28:59 CPU Time: 0 0: 1:22.42 ( 82.42 sec) Binary
2351     Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2352     Date: 05/18/06 Time: 10:29:03 CPU Time: 0 0: 1:25.91 ( 85.91 sec) Binary
2354     Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2355     Date: 05/18/06 Time: 10:29:08 CPU Time: 0 0: 1:30.98 ( 90.98 sec) Binary
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2357    Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2358    Date: 05/18/06 Time: 10:29:11 CPU Time: 0 0: 1:34.15 (  94.15 sec) Binary
2360    Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2361    Date: 05/18/06 Time: 10:29:17 CPU Time: 0 0: 1:40.06 ( 100.06 sec) Binary
2363    Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2364    Date: 05/18/06 Time: 10:29:25 CPU Time: 0 0: 1:47.70 ( 107.70 sec) Binary
2366    Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2367    Date: 05/18/06 Time: 10:29:31 CPU Time: 0 0: 1:54.38 ( 114.38 sec) Binary
2369    Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2370    Date: 05/18/06 Time: 10:29:39 CPU Time: 0 0: 2: 2.22 ( 122.22 sec) Binary
2372    Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2373    Date: 05/18/06 Time: 10:29:45 CPU Time: 0 0: 2: 8.48 ( 128.48 sec) Binary
2375    Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2376    Date: 05/18/06 Time: 10:29:55 CPU Time: 0 0: 2:17.82 ( 137.82 sec) Binary
2378    Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2379    Date: 05/18/06 Time: 10:29:58 CPU Time: 0 0: 2:20.99 ( 140.99 sec) Binary
2381    Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2382    Date: 05/18/06 Time: 10:30:02 CPU Time: 0 0: 2:25.06 ( 145.06 sec) Binary
2384    Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2385    Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 2:30.87 ( 150.87 sec) Binary
2387    Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2388    Date: 05/18/06 Time: 10:30:16 CPU Time: 0 0: 2:39.18 ( 159.18 sec) Binary
2390    Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2391    Date: 05/18/06 Time: 10:30:24 CPU Time: 0 0: 2:47.23 ( 167.23 sec) Binary
2393    Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2394    Date: 05/18/06 Time: 10:30:31 CPU Time: 0 0: 2:54.46 ( 174.46 sec) Binary
2396    Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2397    Date: 05/18/06 Time: 10:30:41 CPU Time: 0 0: 3: 3.99 ( 183.99 sec) Binary
2399    Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2400    Date: 05/18/06 Time: 10:30:47 CPU Time: 0 0: 3: 9.97 ( 189.97 sec) Binary
2402    Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2403    Date: 05/18/06 Time: 10:30:56 CPU Time: 0 0: 3:18.61 ( 198.61 sec) Binary
2405    Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2406    Date: 05/18/06 Time: 10:30:58 CPU Time: 0 0: 3:21.38 ( 201.38 sec) Binary
2408    Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2409    Date: 05/18/06 Time: 10:31:03 CPU Time: 0 0: 3:26.42 ( 206.42 sec) Binary
2411    Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2412    Date: 05/18/06 Time: 10:31:09 CPU Time: 0 0: 3:32.06 ( 212.06 sec) Binary
2414    Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2415    Date: 05/18/06 Time: 10:31:17 CPU Time: 0 0: 3:40.11 ( 220.11 sec) Binary
2417    Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2418    Date: 05/18/06 Time: 10:31:22 CPU Time: 0 0: 3:45.04 ( 225.04 sec) Binary
2420    Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2421    Date: 05/18/06 Time: 10:31:24 CPU Time: 0 0: 3:46.88 ( 226.88 sec) Binary
2423    Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2424    Date: 05/18/06 Time: 10:31:29 CPU Time: 0 0: 3:51.60 ( 231.60 sec) Binary
2426    Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2427    Date: 05/18/06 Time: 10:31:35 CPU Time: 0 0: 3:58.00 ( 238.00 sec) Binary
2429    Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2430    Date: 05/18/06 Time: 10:31:42 CPU Time: 0 0: 4: 4.99 ( 244.99 sec) Binary
2432    Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2433    Date: 05/18/06 Time: 10:31:48 CPU Time: 0 0: 4:11.11 ( 251.11 sec) Binary
2435    Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2436    Date: 05/18/06 Time: 10:31:54 CPU Time: 0 0: 4:17.19 ( 257.19 sec) Binary
2438    Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2439    Date: 05/18/06 Time: 10:32:00 CPU Time: 0 0: 4:22.67 ( 262.67 sec) Binary
2441    Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2442    Date: 05/18/06 Time: 10:32:07 CPU Time: 0 0: 4:30.29 ( 270.29 sec) Binary
2444    Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2445    Date: 05/18/06 Time: 10:32:12 CPU Time: 0 0: 4:34.62 ( 274.62 sec) Binary
2447    Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2448    Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 4:42.27 ( 282.27 sec) Binary
2450    Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2451    Date: 05/18/06 Time: 10:32:24 CPU Time: 0 0: 4:46.76 ( 286.76 sec) Binary
2453    Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2454    Date: 05/18/06 Time: 10:32:31 CPU Time: 0 0: 4:53.34 ( 293.34 sec) Binary
2456    Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2457    Date: 05/18/06 Time: 10:32:37 CPU Time: 0 0: 4:59.87 ( 299.87 sec) Binary
2459    Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2460    Date: 05/18/06 Time: 10:32:42 CPU Time: 0 0: 5: 4.30 ( 304.30 sec) Binary
2462    Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2463    Date: 05/18/06 Time: 10:32:49 CPU Time: 0 0: 5:12.15 ( 312.15 sec) Binary
2465    Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2466    Date: 05/18/06 Time: 10:32:57 CPU Time: 0 0: 5:19.57 ( 319.57 sec) Binary
2468    Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2469    Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 5:26.11 ( 326.11 sec) Binary
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2471    Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2472    Date: 05/18/06 Time: 10:33:11 CPU Time: 0 0: 5:33.67 ( 333.67 sec) Binary
2474    Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2475    Date: 05/18/06 Time: 10:33:17 CPU Time: 0 0: 5:40.00 ( 340.00 sec) Binary
2477    Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2478    Date: 05/18/06 Time: 10:33:25 CPU Time: 0 0: 5:47.93 ( 347.93 sec) Binary
2480    Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2481    Date: 05/18/06 Time: 10:33:33 CPU Time: 0 0: 5:55.82 ( 355.82 sec) Binary
2483    Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2484    Date: 05/18/06 Time: 10:33:41 CPU Time: 0 0: 6: 3.19 ( 363.19 sec) Binary
2486    Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2487    Date: 05/18/06 Time: 10:33:48 CPU Time: 0 0: 6: 9.97 ( 369.97 sec) Binary
2489    Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2490    Date: 05/18/06 Time: 10:33:55 CPU Time: 0 0: 6:17.23 ( 377.23 sec) Binary
2492    Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2493    Date: 05/18/06 Time: 10:34:01 CPU Time: 0 0: 6:23.04 ( 383.04 sec) Binary
2495    Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2496    Date: 05/18/06 Time: 10:34:10 CPU Time: 0 0: 6:31.98 ( 391.98 sec) Binary
2498    Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2499    Date: 05/18/06 Time: 10:34:14 CPU Time: 0 0: 6:36.41 ( 396.41 sec) Binary
2501    Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2502    Date: 05/18/06 Time: 10:34:23 CPU Time: 0 0: 6:44.72 ( 404.72 sec) Binary
2504    Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2505    Date: 05/18/06 Time: 10:34:31 CPU Time: 0 0: 6:52.90 ( 412.90 sec) Binary
2507    Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2508    Date: 05/18/06 Time: 10:34:38 CPU Time: 0 0: 7: 0.26 ( 420.26 sec) Binary
2510    Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2511    Date: 05/18/06 Time: 10:34:45 CPU Time: 0 0: 7: 6.66 ( 426.66 sec) Binary
2513    Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2514    Date: 05/18/06 Time: 10:34:51 CPU Time: 0 0: 7:12.65 ( 432.65 sec) Binary
2516    Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2517    Date: 05/18/06 Time: 10:34:58 CPU Time: 0 0: 7:19.94 ( 439.94 sec) Binary
2519    Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2520    Date: 05/18/06 Time: 10:35:04 CPU Time: 0 0: 7:26.00 ( 446.00 sec) Binary
2522    Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2523    Date: 05/18/06 Time: 10:35:10 CPU Time: 0 0: 7:32.34 ( 452.34 sec) Binary
2525    Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2526    Date: 05/18/06 Time: 10:35:18 CPU Time: 0 0: 7:39.80 ( 459.80 sec) Binary
2528    Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2529    Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 7:43.66 ( 463.66 sec) Binary
2531    Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2532    Date: 05/18/06 Time: 10:35:27 CPU Time: 0 0: 7:48.63 ( 468.63 sec) Binary
2534    Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2535    Date: 05/18/06 Time: 10:35:34 CPU Time: 0 0: 7:56.04 ( 476.04 sec) Binary
2537    Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2538    Date: 05/18/06 Time: 10:35:39 CPU Time: 0 0: 8: 0.81 ( 480.81 sec) Binary
2540    Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2541    Date: 05/18/06 Time: 10:35:51 CPU Time: 0 0: 8:13.01 ( 493.01 sec) Binary
2543    Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2544    Date: 05/18/06 Time: 10:36:00 CPU Time: 0 0: 8:21.57 ( 501.57 sec) Binary
2546    Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2547    Date: 05/18/06 Time: 10:36:05 CPU Time: 0 0: 8:26.62 ( 506.62 sec) Binary
2549    Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2550    Date: 05/18/06 Time: 10:36:13 CPU Time: 0 0: 8:34.23 ( 514.23 sec) Binary
2552    Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2553    Date: 05/18/06 Time: 10:36:20 CPU Time: 0 0: 8:41.61 ( 521.61 sec) Binary
2555    Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2556    Date: 05/18/06 Time: 10:36:27 CPU Time: 0 0: 8:48.25 ( 528.25 sec) Binary
2558    Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2559    Date: 05/18/06 Time: 10:36:34 CPU Time: 0 0: 8:55.58 ( 535.58 sec) Binary
2561    Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2562    Date: 05/18/06 Time: 10:36:42 CPU Time: 0 0: 9: 3.75 ( 543.75 sec) Binary
2564    Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2565    Date: 05/18/06 Time: 10:36:50 CPU Time: 0 0: 9:11.69 ( 551.69 sec) Binary
2567    Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2568    Date: 05/18/06 Time: 10:36:58 CPU Time: 0 0: 9:19.42 ( 559.42 sec) Binary
2570    Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2571    Date: 05/18/06 Time: 10:37:06 CPU Time: 0 0: 9:27.80 ( 567.80 sec) Binary
2573    Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2574    Date: 05/18/06 Time: 10:37:14 CPU Time: 0 0: 9:35.87 ( 575.87 sec) Binary
2576    Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2577    Date: 05/18/06 Time: 10:37:22 CPU Time: 0 0: 9:43.27 ( 583.27 sec) Binary
2579    Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2580    Date: 05/18/06 Time: 10:37:26 CPU Time: 0 0: 9:47.26 ( 587.26 sec) Binary
2583    Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 2745     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2746     CPU Time (total for run) = 697.37 sec = 0.19371 hr
 2747    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 2599     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 2600     CPU Time (total for run) = 588.20 sec = 0.16339 hr
 2601    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 3423     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
 3425     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3426     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
 3431    ******************************************************************************
 3432     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3433     * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3434    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
 3277     Date: 05/18/06 Time: 10:37:27 CPU Time: 0 0: 9:48.21 ( 588.21 sec) ASCII
 3279     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3280     Date: 05/18/06 Time: 10:37:27 CPU Time: 0 0: 9:48.21 ( 588.21 sec) Binary
 3285    ******************************************************************************
 3286     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3287     * Completed: 05/18/06 at 10:37:27 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3288    ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 425

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_VMS82_V500_ES47_TEST7_R005.OUT;1
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BF2_QB0600_ES47_TEST7_V006_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:27:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
   62    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_TEST7_R006_QA0500.INP;1
   62    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   72    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R006]BF2_VMS82_V500_ES47_TEST7_R006.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
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233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
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  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  828     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1059     Reaction rate constants (RK):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 1.002000E+00
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 1.002000E+00
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
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1112    Stoichiometric coeff's for Rxn 1:
1113    H2 coefficient = 1.014400E+00
1114    H2O coefficient = -1.971300E+00
1115    Fe coefficient = -1.000000E+00
1116    Bio coefficient = 0.000000E+00
1117    Fe(OH)2 coefficient = 0.000000E+00
1118    FeS coefficient = 0.000000E+00
1119    MgO coefficient = 0.000000E+00
1120    Mg(OH)2 coefficient = 0.000000E+00
1121    MgCO3 coefficient = 0.000000E+00
1123    Stoichiometric coeff's for Rxn 2:
1124    H2 coefficient = 1.002000E+00
1125    H2O coefficient = 0.000000E+00
1126    Fe coefficient = 0.000000E+00
1127    Bio coefficient = -1.000000E+00
1128    Fe(OH)2 coefficient = 0.000000E+00
1129    FeS coefficient = 0.000000E+00
1130    MgO coefficient = 0.000000E+00
1131    Mg(OH)2 coefficient = 0.000000E+00
1132    MgCO3 coefficient = 0.000000E+00
1134    Stoichiometric coeff's for Rxn 3:
1135    H2 coefficient = 0.000000E+00
1136    H2O coefficient = 0.000000E+00
1137    Fe coefficient = 0.000000E+00
1138    Bio coefficient = 0.000000E+00
1139    Fe(OH)2 coefficient = 0.000000E+00
1140    FeS coefficient = 0.000000E+00
1141    MgO coefficient = 0.000000E+00
1142    Mg(OH)2 coefficient = 0.000000E+00
1143    MgCO3 coefficient = 0.000000E+00
1145    Stoichiometric coeff's for Rxn 4:
1146    H2 coefficient = 0.000000E+00
1147    H2O coefficient = 0.000000E+00
1148    Fe coefficient = 0.000000E+00
1149    Bio coefficient = 0.000000E+00
1150    Fe(OH)2 coefficient = 0.000000E+00
1151    FeS coefficient = 0.000000E+00
1152    MgO coefficient = 0.000000E+00
1153    Mg(OH)2 coefficient = 0.000000E+00
1154    MgCO3 coefficient = 0.000000E+00
1156    Stoichiometric coeff's for Rxn 5:
1157    H2 coefficient = 0.000000E+00
1158    H2O coefficient = 0.000000E+00
1159    Fe coefficient = 0.000000E+00
1160    Bio coefficient = 0.000000E+00
1161    Fe(OH)2 coefficient = 0.000000E+00
1162    FeS coefficient = 0.000000E+00
1163    MgO coefficient = 0.000000E+00
1164    Mg(OH)2 coefficient = 0.000000E+00
1165    MgCO3 coefficient = 0.000000E+00
1167    Stoichiometric coeff's for Rxn 6:
1168    H2 coefficient = 0.000000E+00
1169    H2O coefficient = 0.000000E+00
1170    Fe coefficient = 0.000000E+00
1171    Bio coefficient = 0.000000E+00
1172    Fe(OH)2 coefficient = 0.000000E+00
1173    FeS coefficient = 0.000000E+00
1174    MgO coefficient = 0.000000E+00
1175    Mg(OH)2 coefficient = 0.000000E+00
1176    MgCO3 coefficient = 0.000000E+00
1178    Stoichiometric coeff's for Rxn 7:
1179    H2 coefficient = 0.000000E+00
1180    H2O coefficient = 0.000000E+00
1181    Fe coefficient = 0.000000E+00
1182    Bio coefficient = 0.000000E+00
1183    Fe(OH)2 coefficient = 0.000000E+00
1184    FeS coefficient = 0.000000E+00
1185    MgO coefficient = 0.000000E+00
1186    Mg(OH)2 coefficient = 0.000000E+00
1187    MgCO3 coefficient = 0.000000E+00
```

```
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.014400E+00
 1069     H2O coefficient = 1.971300E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.002000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
************************************************************************************************
************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
```

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1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1130
*****************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
1773     CPU Time (total for run) = 28.24 sec = 0.00784 hr
1774     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
1626     CPU Time (this time step) = 0.11 sec = 0.00003 hr
1627     CPU Time (total for run) = 23.20 sec = 0.00644 hr
1628     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2450     Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) ASCII
2452     Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453     Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) Binary
2455     Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456     Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 ( 33.21 sec) Binary
2458     Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459     Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
2461     Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462     Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 ( 40.92 sec) Binary
2464     Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465     Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 ( 45.59 sec) Binary
2467     Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468     Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 ( 50.76 sec) Binary
2470     Time Step No. = 260 Elapsed Time = 8.613100E+03 days
2471     Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 ( 57.35 sec) Binary
2473     Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474     Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 ( 61.27 sec) Binary
2476     Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477     Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 ( 68.51 sec) Binary
2479     Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480     Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 ( 73.81 sec) Binary
2482     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483     Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 ( 85.19 sec) Binary
2485     Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486     Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 ( 88.54 sec) Binary
2488     Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489     Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 ( 91.48 sec) Binary
2491     Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492     Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 ( 96.46 sec) Binary
2494     Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495     Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 ( 98.36 sec) Binary
2497     Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498     Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 ( 101.65 sec) Binary
2500     Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2501     Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 ( 106.55 sec) Binary
2503     Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504     Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 ( 113.67 sec) Binary
2506     Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507     Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 ( 125.27 sec) Binary
2509     Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510     Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 ( 133.77 sec) Binary
2512     Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513     Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 ( 143.77 sec) Binary
2515     Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516     Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 ( 153.83 sec) Binary
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2518	Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519	Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 ( 158.11 sec) Binary
2521	Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522	Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 ( 161.37 sec) Binary
2524	Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525	Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 ( 163.69 sec) Binary
2527	Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528	Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 ( 168.61 sec) Binary
2530	Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531	Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 ( 177.35 sec) Binary
2533	Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534	Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 ( 188.33 sec) Binary
2536	Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537	Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 ( 192.77 sec) Binary
2539	Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540	Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 ( 200.90 sec) Binary
2542	Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543	Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 ( 209.25 sec) Binary
2545	Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546	Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 ( 218.49 sec) Binary
2548	Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549	Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 ( 226.91 sec) Binary
2551	Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552	Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 ( 234.11 sec) Binary
2554	Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555	Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 ( 243.22 sec) Binary
2557	Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558	Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 ( 251.03 sec) Binary
2560	Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561	Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2563	Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564	Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 ( 264.36 sec) Binary
2566	Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567	Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 ( 269.62 sec) Binary
2569	Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570	Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 ( 279.62 sec) Binary
2572	Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573	Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 ( 284.64 sec) Binary
2575	Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576	Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 ( 292.67 sec) Binary
2578	Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579	Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 ( 300.51 sec) Binary
2581	Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582	Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 ( 304.31 sec) Binary
2584	Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585	Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 ( 311.00 sec) Binary
2587	Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588	Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 ( 317.36 sec) Binary
2590	Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591	Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 ( 324.66 sec) Binary
2593	Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594	Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 ( 329.45 sec) Binary
2596	Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597	Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 ( 338.71 sec) Binary
2599	Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600	Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 ( 343.11 sec) Binary
2602	Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603	Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 ( 349.27 sec) Binary
2605	Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606	Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 ( 354.01 sec) Binary
2608	Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609	Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 ( 362.78 sec) Binary
2611	Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612	Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 ( 373.04 sec) Binary
2614	Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2615	Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 ( 378.86 sec) Binary
2617	Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618	Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 ( 388.80 sec) Binary
2620	Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621	Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 ( 397.73 sec) Binary
2623	Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624	Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 ( 404.90 sec) Binary
2626	Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627	Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 ( 411.87 sec) Binary
2629	Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630	Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 ( 420.86 sec) Binary
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2632    Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633    Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 ( 433.36 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636    Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 ( 438.55 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639    Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 ( 444.70 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642    Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 ( 450.78 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645    Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 ( 459.90 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648    Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 ( 468.13 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651    Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 ( 474.59 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654    Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 ( 479.91 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657    Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 ( 488.13 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660    Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 ( 496.71 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663    Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 ( 502.53 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666    Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 ( 508.18 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669    Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 ( 516.62 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672    Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 ( 522.29 sec) Binary
2675    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
2304    Date: 05/18/06 Time: 10:28:21 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
2306    Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2307    Date: 05/18/06 Time: 10:28:21 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
2309    Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2310    Date: 05/18/06 Time: 10:28:25 CPU Time: 0 0: 0:27.02 ( 27.02 sec) Binary
2312    Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2313    Date: 05/18/06 Time: 10:28:28 CPU Time: 0 0: 0:29.91 ( 29.91 sec) Binary
2315    Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2316    Date: 05/18/06 Time: 10:28:31 CPU Time: 0 0: 0:33.24 ( 33.24 sec) Binary
2318    Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2319    Date: 05/18/06 Time: 10:28:35 CPU Time: 0 0: 0:37.22 ( 37.22 sec) Binary
2321    Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2322    Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 0:41.55 ( 41.55 sec) Binary
2324    Time Step No. = 260 Elapsed Time = 8.613100E+03 days
2325    Date: 05/18/06 Time: 10:28:45 CPU Time: 0 0: 0:46.87 ( 46.87 sec) Binary
2327    Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2328    Date: 05/18/06 Time: 10:28:48 CPU Time: 0 0: 0:49.99 ( 49.99 sec) Binary
2330    Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2331    Date: 05/18/06 Time: 10:28:54 CPU Time: 0 0: 0:55.69 ( 55.69 sec) Binary
2333    Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2334    Date: 05/18/06 Time: 10:28:58 CPU Time: 0 0: 1: 0.01 ( 60.01 sec) Binary
2336    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2337    Date: 05/18/06 Time: 10:29:08 CPU Time: 0 0: 1: 9.14 ( 69.14 sec) Binary
2339    Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2340    Date: 05/18/06 Time: 10:29:10 CPU Time: 0 0: 1:11.83 ( 71.83 sec) Binary
2342    Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2343    Date: 05/18/06 Time: 10:29:13 CPU Time: 0 0: 1:14.19 ( 74.19 sec) Binary
2345    Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2346    Date: 05/18/06 Time: 10:29:17 CPU Time: 0 0: 1:18.21 ( 78.21 sec) Binary
2348    Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2349    Date: 05/18/06 Time: 10:29:18 CPU Time: 0 0: 1:19.75 ( 79.75 sec) Binary
2351    Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2352    Date: 05/18/06 Time: 10:29:21 CPU Time: 0 0: 1:22.39 ( 82.39 sec) Binary
2354    Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2355    Date: 05/18/06 Time: 10:29:25 CPU Time: 0 0: 1:26.35 ( 86.35 sec) Binary
2357    Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2358    Date: 05/18/06 Time: 10:29:31 CPU Time: 0 0: 1:32.09 ( 92.09 sec) Binary
2360    Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2361    Date: 05/18/06 Time: 10:29:40 CPU Time: 0 0: 1:41.46 ( 101.46 sec) Binary
2363    Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2364    Date: 05/18/06 Time: 10:29:47 CPU Time: 0 0: 1:48.34 ( 108.34 sec) Binary
2366    Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2367    Date: 05/18/06 Time: 10:29:55 CPU Time: 0 0: 1:56.43 ( 116.43 sec) Binary
2369    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2370    Date: 05/18/06 Time: 10:30:03 CPU Time: 0 0: 2: 4.60 ( 124.60 sec) Binary
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2372    Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2373    Date: 05/18/06 Time: 10:30:07 CPU Time: 0 0: 2: 7.99 ( 127.99 sec) Binary
2375    Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2376    Date: 05/18/06 Time: 10:30:09 CPU Time: 0 0: 2:10.60 ( 130.60 sec) Binary
2378    Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2379    Date: 05/18/06 Time: 10:30:11 CPU Time: 0 0: 2:12.47 ( 132.47 sec) Binary
2381    Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2382    Date: 05/18/06 Time: 10:30:15 CPU Time: 0 0: 2:16.48 ( 136.48 sec) Binary
2384    Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2385    Date: 05/18/06 Time: 10:30:22 CPU Time: 0 0: 2:23.61 ( 143.61 sec) Binary
2387    Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2388    Date: 05/18/06 Time: 10:30:31 CPU Time: 0 0: 2:32.60 ( 152.60 sec) Binary
2390    Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2391    Date: 05/18/06 Time: 10:30:35 CPU Time: 0 0: 2:36.24 ( 156.24 sec) Binary
2393    Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2394    Date: 05/18/06 Time: 10:30:42 CPU Time: 0 0: 2:42.86 ( 162.86 sec) Binary
2396    Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2397    Date: 05/18/06 Time: 10:30:48 CPU Time: 0 0: 2:49.39 ( 169.39 sec) Binary
2399    Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2400    Date: 05/18/06 Time: 10:30:55 CPU Time: 0 0: 2:56.59 ( 176.59 sec) Binary
2402    Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2403    Date: 05/18/06 Time: 10:31:02 CPU Time: 0 0: 3: 3.15 ( 183.15 sec) Binary
2405    Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2406    Date: 05/18/06 Time: 10:31:08 CPU Time: 0 0: 3: 8.81 ( 188.81 sec) Binary
2408    Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2409    Date: 05/18/06 Time: 10:31:15 CPU Time: 0 0: 3:16.09 ( 196.09 sec) Binary
2411    Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2412    Date: 05/18/06 Time: 10:31:21 CPU Time: 0 0: 3:22.39 ( 202.39 sec) Binary
2414    Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2415    Date: 05/18/06 Time: 10:31:27 CPU Time: 0 0: 3:28.27 ( 208.27 sec) Binary
2417    Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2418    Date: 05/18/06 Time: 10:31:32 CPU Time: 0 0: 3:33.69 ( 213.69 sec) Binary
2420    Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2421    Date: 05/18/06 Time: 10:31:37 CPU Time: 0 0: 3:38.21 ( 218.21 sec) Binary
2423    Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2424    Date: 05/18/06 Time: 10:31:46 CPU Time: 0 0: 3:46.72 ( 226.72 sec) Binary
2426    Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2427    Date: 05/18/06 Time: 10:31:50 CPU Time: 0 0: 3:51.00 ( 231.00 sec) Binary
2429    Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2430    Date: 05/18/06 Time: 10:31:57 CPU Time: 0 0: 3:57.87 ( 237.87 sec) Binary
2432    Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2433    Date: 05/18/06 Time: 10:32:03 CPU Time: 0 0: 4: 4.55 ( 244.55 sec) Binary
2435    Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2436    Date: 05/18/06 Time: 10:32:07 CPU Time: 0 0: 4: 7.79 ( 247.79 sec) Binary
2438    Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2439    Date: 05/18/06 Time: 10:32:12 CPU Time: 0 0: 4:13.50 ( 253.50 sec) Binary
2441    Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2442    Date: 05/18/06 Time: 10:32:18 CPU Time: 0 0: 4:18.94 ( 258.94 sec) Binary
2444    Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2445    Date: 05/18/06 Time: 10:32:24 CPU Time: 0 0: 4:25.19 ( 265.19 sec) Binary
2447    Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2448    Date: 05/18/06 Time: 10:32:28 CPU Time: 0 0: 4:29.30 ( 269.30 sec) Binary
2450    Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2451    Date: 05/18/06 Time: 10:32:36 CPU Time: 0 0: 4:37.18 ( 277.18 sec) Binary
2453    Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2454    Date: 05/18/06 Time: 10:32:40 CPU Time: 0 0: 4:40.94 ( 280.94 sec) Binary
2456    Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2457    Date: 05/18/06 Time: 10:32:45 CPU Time: 0 0: 4:46.22 ( 286.22 sec) Binary
2459    Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2460    Date: 05/18/06 Time: 10:32:49 CPU Time: 0 0: 4:50.27 ( 290.27 sec) Binary
2462    Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2463    Date: 05/18/06 Time: 10:32:57 CPU Time: 0 0: 4:57.79 ( 297.79 sec) Binary
2465    Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2466    Date: 05/18/06 Time: 10:33:05 CPU Time: 0 0: 5: 6.53 ( 306.53 sec) Binary
2468    Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2469    Date: 05/18/06 Time: 10:33:10 CPU Time: 0 0: 5:11.30 ( 311.30 sec) Binary
2471    Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2472    Date: 05/18/06 Time: 10:33:19 CPU Time: 0 0: 5:19.71 ( 319.71 sec) Binary
2474    Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2475    Date: 05/18/06 Time: 10:33:26 CPU Time: 0 0: 5:27.32 ( 327.32 sec) Binary
2477    Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2478    Date: 05/18/06 Time: 10:33:33 CPU Time: 0 0: 5:33.48 ( 333.48 sec) Binary
2480    Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2481    Date: 05/18/06 Time: 10:33:39 CPU Time: 0 0: 5:39.34 ( 339.34 sec) Binary
2483    Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2484    Date: 05/18/06 Time: 10:33:46 CPU Time: 0 0: 5:46.51 ( 346.51 sec) Binary
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 2486     Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
 2487     Date: 05/18/06 Time: 10:33:57 CPU Time: 0 0: 5:57.34 ( 357.34 sec) Binary
 2489     Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
 2490     Date: 05/18/06 Time: 10:34:01 CPU Time: 0 0: 6: 1.79 ( 361.79 sec) Binary
 2492     Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
 2493     Date: 05/18/06 Time: 10:34:06 CPU Time: 0 0: 6: 6.83 ( 366.83 sec) Binary
 2495     Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
 2496     Date: 05/18/06 Time: 10:34:11 CPU Time: 0 0: 6:11.64 ( 371.64 sec) Binary
 2498     Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
 2499     Date: 05/18/06 Time: 10:34:18 CPU Time: 0 0: 6:18.74 ( 378.74 sec) Binary
 2501     Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
 2502     Date: 05/18/06 Time: 10:34:25 CPU Time: 0 0: 6:25.34 ( 385.34 sec) Binary
 2504     Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
 2505     Date: 05/18/06 Time: 10:34:30 CPU Time: 0 0: 6:30.67 ( 390.67 sec) Binary
 2507     Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
 2508     Date: 05/18/06 Time: 10:34:35 CPU Time: 0 0: 6:35.09 ( 395.09 sec) Binary
 2510     Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
 2511     Date: 05/18/06 Time: 10:34:42 CPU Time: 0 0: 6:41.89 ( 401.89 sec) Binary
 2513     Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
 2514     Date: 05/18/06 Time: 10:34:49 CPU Time: 0 0: 6:48.99 ( 408.99 sec) Binary
 2516     Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
 2517     Date: 05/18/06 Time: 10:34:53 CPU Time: 0 0: 6:53.78 ( 413.78 sec) Binary
 2519     Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
 2520     Date: 05/18/06 Time: 10:34:58 CPU Time: 0 0: 6:58.50 ( 418.50 sec) Binary
 2522     Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
 2523     Date: 05/18/06 Time: 10:35:05 CPU Time: 0 0: 7: 5.50 ( 425.50 sec) Binary
 2525     Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
 2526     Date: 05/18/06 Time: 10:35:10 CPU Time: 0 0: 7:10.17 ( 430.17 sec) Binary
 2529     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 2691     CPU Time (this time step) = 0.22 sec = 0.00006 hr
 2692     CPU Time (total for run) = 524.22 sec = 0.14562 hr
 2693     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 2545     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 2546     CPU Time (total for run) = 431.75 sec = 0.11993 hr
 2547     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 3369     Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
 3371     Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
 3372     Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
 3377     ********************************************************************************
 3378     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3379     * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3380     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
 3223     Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 7:11.76 ( 431.76 sec) ASCII
 3225     Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
 3226     Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 7:11.77 ( 431.77 sec) Binary
 3231     ********************************************************************************
 3232     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3233     * Completed: 05/18/06 at 10:35:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3234     ********************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 389

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_VMS82_V500_ES47_TEST7_R006.OUT;1
```

BF2_QB0600_ES47_TEST7_V007_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
```

```
   3     ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
   4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
   2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
   3     ** Begun on: 05/18/06 at 10:28:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
   4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
  62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_TEST7_R007_QA0500.INP;1
  62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
  67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_CLOSURE.DAT;1
  67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.SUM;1
  77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.SUM;1
  77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.BIN;1
  82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.BIN;1
  82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.ROT;1
  87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R007]BF2_VMS82_V500_ES47_TEST7_R007.ROT;1
  87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
 196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
 197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
 198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
 199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
 200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
 205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
```

```
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
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 276    124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 195    43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 196    44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 197    45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 198    46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 199    47 1 1 CONCFE Fe concentration -- simple model kg/m^3
 200    48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 201    49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 202    50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 203    51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 204    52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 205    53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 206    54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 207    55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 208    56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 209    57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 210    58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 211    59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 212    60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 213    61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 214    62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 215    63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 216    64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 217    65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 218    66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 219    67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 220    68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 221    69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 222    70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 223    71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 224    72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 225    73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 226    74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 227    75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 228    76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 229    77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 230    78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 231    79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 232    80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 233    81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 234    82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 235    83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 236    84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 237    85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 238    86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 239    87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 240    88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 241    89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 242    90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 243    91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 244    92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 245    93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 246    94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 247    95 0 0 H2OFLOWIN Water inflow rate kg/s
 248    96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 249    97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 250    98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 251    99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 252    100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 253    101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 254    102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 255    103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 256    104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 257    105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 258    106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 259    107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
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 950     TOL = 1.0000E-02
 951     SOCEFFMIN = 1.0000E-03
 953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1086     Intrinsic reaction rate constants? (LINTRIN): F
1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
1096     MgO hydration reaction rate constants:
1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100     Gas generation factors for biodegradation reaction:
1101     Waste Area # 1
1102     H2/H2S production (RXH2S) = 1.110000E+00
1103     CO2 production (RXCO2) = 0.000000E+00
1105     Gas generation factors for biodegradation reaction:
1106     Waste Area # 2
1107     H2/H2S production (RXH2S) = 1.110000E+00
1108     CO2 production (RXCO2) = 0.000000E+00
1110     Saturation cutoff value (SOCMIN): 0.000000E+00
1112     Stoichiometric coeff's for Rxn 1:
1113     H2 coefficient = 1.308100E+00
1114     H2O coefficient = -1.383800E+00
1115     Fe coefficient = -1.000000E+00
1116     Bio coefficient = 0.000000E+00
1117     Fe(OH)2 coefficient = 0.000000E+00
1118     FeS coefficient = 0.000000E+00
1119     MgO coefficient = 0.000000E+00
1120     Mg(OH)2 coefficient = 0.000000E+00
1121     MgCO3 coefficient = 0.000000E+00
1123     Stoichiometric coeff's for Rxn 2:
1124     H2 coefficient = 1.110000E+00
1125     H2O coefficient = 0.000000E+00
1126     Fe coefficient = 0.000000E+00
1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
1145     Stoichiometric coeff's for Rxn 4:
1146     H2 coefficient = 0.000000E+00
1147     H2O coefficient = 0.000000E+00
1148     Fe coefficient = 0.000000E+00
1149     Bio coefficient = 0.000000E+00
1150     Fe(OH)2 coefficient = 0.000000E+00
1151     FeS coefficient = 0.000000E+00
1152     MgO coefficient = 0.000000E+00
1153     Mg(OH)2 coefficient = 0.000000E+00
1154     MgCO3 coefficient = 0.000000E+00
1156     Stoichiometric coeff's for Rxn 5:
1157     H2 coefficient = 0.000000E+00
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 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.308100E+00
 1069     H2O coefficient = 1.383800E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.110000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 22.28 sec = 0.00619 hr
 1774    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 1626     CPU Time (this time step) = 0.10 sec = 0.00003 hr
 1627     CPU Time (total for run) = 20.38 sec = 0.00566 hr
 1628    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 2450     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 ( 22.29 sec) ASCII
 2452     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 ( 22.30 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 2456     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 ( 23.32 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 6.773075E+00 days
 2459     Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 ( 26.72 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 2462     Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 ( 30.53 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.266587E+03 days
 2465     Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 ( 36.63 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.223245E+04 days
 2468     Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 ( 43.00 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 ( 57.56 sec) Binary
```

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2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474     Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 ( 60.49 sec) Binary
2476     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477     Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 ( 63.56 sec) Binary
2479     Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480     Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 ( 67.05 sec) Binary
2482     Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483     Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 ( 70.48 sec) Binary
2485     Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2486     Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
2488     Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489     Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 ( 76.20 sec) Binary
2491     Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492     Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 ( 81.20 sec) Binary
2494     Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495     Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 ( 89.92 sec) Binary
2497     Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498     Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 ( 96.35 sec) Binary
2500     Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501     Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 ( 106.27 sec) Binary
2503     Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504     Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
2506     Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507     Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 ( 115.75 sec) Binary
2509     Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510     Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 ( 120.01 sec) Binary
2512     Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513     Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 ( 121.83 sec) Binary
2515     Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516     Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 ( 125.81 sec) Binary
2518     Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519     Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 ( 134.35 sec) Binary
2521     Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522     Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 ( 144.44 sec) Binary
2524     Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525     Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 ( 150.28 sec) Binary
2527     Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528     Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 ( 154.67 sec) Binary
2530     Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531     Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 ( 161.58 sec) Binary
2533     Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534     Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 ( 166.68 sec) Binary
2536     Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537     Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 ( 175.64 sec) Binary
2539     Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540     Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 ( 181.65 sec) Binary
2542     Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543     Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 ( 187.61 sec) Binary
2545     Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546     Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 ( 192.92 sec) Binary
2548     Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549     Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 ( 199.95 sec) Binary
2551     Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552     Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 ( 205.94 sec) Binary
2554     Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555     Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 ( 209.84 sec) Binary
2557     Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558     Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 ( 215.71 sec) Binary
2560     Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561     Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 ( 221.70 sec) Binary
2563     Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564     Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 ( 229.87 sec) Binary
2566     Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567     Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 ( 237.52 sec) Binary
2569     Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570     Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 ( 243.44 sec) Binary
2572     Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573     Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 ( 251.24 sec) Binary
2575     Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576     Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 ( 259.95 sec) Binary
2578     Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579     Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 ( 269.98 sec) Binary
2581     Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582     Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 ( 275.57 sec) Binary
2584     Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585     Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 ( 282.92 sec) Binary
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 2587     Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
 2588     Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 ( 289.87 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
 2591     Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 ( 298.48 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
 2594     Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 ( 303.74 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
 2597     Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 ( 311.91 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
 2600     Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
 2603     Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
 2606     Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
 2609     Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
 2612     Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
 2615     Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
 2618     Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
 2621     Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
 2624     Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
 2627     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 2304     Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:20.40 ( 20.40 sec) ASCII
 2306     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:20.41 ( 20.41 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 2310     Date: 05/18/06 Time: 10:28:29 CPU Time: 0 0: 0:21.27 ( 21.27 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 6.773075E+00 days
 2313     Date: 05/18/06 Time: 10:28:32 CPU Time: 0 0: 0:24.18 ( 24.18 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 2316     Date: 05/18/06 Time: 10:28:35 CPU Time: 0 0: 0:27.18 ( 27.18 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 1.266587E+03 days
 2319     Date: 05/18/06 Time: 10:28:40 CPU Time: 0 0: 0:31.84 ( 31.84 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 1.223245E+04 days
 2322     Date: 05/18/06 Time: 10:28:45 CPU Time: 0 0: 0:36.93 ( 36.93 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2325     Date: 05/18/06 Time: 10:28:57 CPU Time: 0 0: 0:48.44 ( 48.44 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2328     Date: 05/18/06 Time: 10:28:59 CPU Time: 0 0: 0:50.69 ( 50.69 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 2331     Date: 05/18/06 Time: 10:29:01 CPU Time: 0 0: 0:53.05 ( 53.05 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 3.652448E+04 days
 2334     Date: 05/18/06 Time: 10:29:04 CPU Time: 0 0: 0:55.71 ( 55.71 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 3.653947E+04 days
 2337     Date: 05/18/06 Time: 10:29:07 CPU Time: 0 0: 0:58.33 ( 58.33 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 3.666343E+04 days
 2340     Date: 05/18/06 Time: 10:29:09 CPU Time: 0 0: 1: 0.69 ( 60.69 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 3.669537E+04 days
 2343     Date: 05/18/06 Time: 10:29:11 CPU Time: 0 0: 1: 2.73 ( 62.73 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 3.742515E+04 days
 2346     Date: 05/18/06 Time: 10:29:15 CPU Time: 0 0: 1: 6.58 ( 66.58 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 3.822089E+04 days
 2349     Date: 05/18/06 Time: 10:29:22 CPU Time: 0 0: 1:13.29 ( 73.29 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 8.862956E+04 days
 2352     Date: 05/18/06 Time: 10:29:27 CPU Time: 0 0: 1:18.28 ( 78.28 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 3.455379E+05 days
 2355     Date: 05/18/06 Time: 10:29:34 CPU Time: 0 0: 1:26.13 ( 86.13 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 3.652522E+05 days
 2358     Date: 05/18/06 Time: 10:29:38 CPU Time: 0 0: 1:29.66 ( 89.66 sec) Binary
 2360     Time Step No. = 480 Elapsed Time = 3.654410E+05 days
 2361     Date: 05/18/06 Time: 10:29:42 CPU Time: 0 0: 1:33.39 ( 93.39 sec) Binary
 2363     Time Step No. = 500 Elapsed Time = 3.666131E+05 days
 2364     Date: 05/18/06 Time: 10:29:45 CPU Time: 0 0: 1:36.66 ( 96.66 sec) Binary
 2366     Time Step No. = 520 Elapsed Time = 3.666386E+05 days
 2367     Date: 05/18/06 Time: 10:29:46 CPU Time: 0 0: 1:38.07 ( 98.07 sec) Binary
 2369     Time Step No. = 540 Elapsed Time = 3.688548E+05 days
 2370     Date: 05/18/06 Time: 10:29:50 CPU Time: 0 0: 1:41.14 ( 101.14 sec) Binary
 2372     Time Step No. = 560 Elapsed Time = 4.082584E+05 days
 2373     Date: 05/18/06 Time: 10:29:56 CPU Time: 0 0: 1:47.72 ( 107.72 sec) Binary
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2375    Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2376    Date: 05/18/06 Time: 10:30:04 CPU Time: 0 0: 1:55.51 ( 115.51 sec) Binary
2378    Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2379    Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 2: 0.05 ( 120.05 sec) Binary
2381    Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2382    Date: 05/18/06 Time: 10:30:12 CPU Time: 0 0: 2: 3.46 ( 123.46 sec) Binary
2384    Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2385    Date: 05/18/06 Time: 10:30:17 CPU Time: 0 0: 2: 8.79 ( 128.79 sec) Binary
2387    Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2388    Date: 05/18/06 Time: 10:30:21 CPU Time: 0 0: 2:12.75 ( 132.75 sec) Binary
2390    Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2391    Date: 05/18/06 Time: 10:30:28 CPU Time: 0 0: 2:19.71 ( 139.71 sec) Binary
2393    Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2394    Date: 05/18/06 Time: 10:30:33 CPU Time: 0 0: 2:24.36 ( 144.36 sec) Binary
2396    Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2397    Date: 05/18/06 Time: 10:30:37 CPU Time: 0 0: 2:29.00 ( 149.00 sec) Binary
2399    Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2400    Date: 05/18/06 Time: 10:30:42 CPU Time: 0 0: 2:33.17 ( 153.17 sec) Binary
2402    Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2403    Date: 05/18/06 Time: 10:30:47 CPU Time: 0 0: 2:38.90 ( 158.90 sec) Binary
2405    Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2406    Date: 05/18/06 Time: 10:30:52 CPU Time: 0 0: 2:43.80 ( 163.80 sec) Binary
2408    Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2409    Date: 05/18/06 Time: 10:30:56 CPU Time: 0 0: 2:46.98 ( 166.98 sec) Binary
2411    Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2412    Date: 05/18/06 Time: 10:31:00 CPU Time: 0 0: 2:51.82 ( 171.82 sec) Binary
2414    Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2415    Date: 05/18/06 Time: 10:31:05 CPU Time: 0 0: 2:56.73 ( 176.73 sec) Binary
2417    Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2418    Date: 05/18/06 Time: 10:31:12 CPU Time: 0 0: 3: 3.42 ( 183.42 sec) Binary
2420    Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2421    Date: 05/18/06 Time: 10:31:18 CPU Time: 0 0: 3: 9.70 ( 189.70 sec) Binary
2423    Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2424    Date: 05/18/06 Time: 10:31:23 CPU Time: 0 0: 3:14.56 ( 194.56 sec) Binary
2426    Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2427    Date: 05/18/06 Time: 10:31:30 CPU Time: 0 0: 3:20.95 ( 200.95 sec) Binary
2429    Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2430    Date: 05/18/06 Time: 10:31:37 CPU Time: 0 0: 3:28.04 ( 208.04 sec) Binary
2432    Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2433    Date: 05/18/06 Time: 10:31:45 CPU Time: 0 0: 3:36.21 ( 216.21 sec) Binary
2435    Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2436    Date: 05/18/06 Time: 10:31:49 CPU Time: 0 0: 3:40.78 ( 220.78 sec) Binary
2438    Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2439    Date: 05/18/06 Time: 10:31:55 CPU Time: 0 0: 3:46.80 ( 226.80 sec) Binary
2441    Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2442    Date: 05/18/06 Time: 10:32:01 CPU Time: 0 0: 3:52.48 ( 232.48 sec) Binary
2444    Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2445    Date: 05/18/06 Time: 10:32:08 CPU Time: 0 0: 3:59.51 ( 239.51 sec) Binary
2447    Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2448    Date: 05/18/06 Time: 10:32:13 CPU Time: 0 0: 4: 3.84 ( 243.84 sec) Binary
2450    Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2451    Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 4:10.57 ( 250.57 sec) Binary
2453    Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2454    Date: 05/18/06 Time: 10:32:25 CPU Time: 0 0: 4:16.01 ( 256.01 sec) Binary
2456    Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2457    Date: 05/18/06 Time: 10:32:34 CPU Time: 0 0: 4:25.36 ( 265.36 sec) Binary
2459    Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2460    Date: 05/18/06 Time: 10:32:40 CPU Time: 0 0: 4:31.33 ( 271.33 sec) Binary
2462    Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2463    Date: 05/18/06 Time: 10:32:48 CPU Time: 0 0: 4:39.29 ( 279.29 sec) Binary
2465    Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2466    Date: 05/18/06 Time: 10:32:55 CPU Time: 0 0: 4:46.39 ( 286.39 sec) Binary
2468    Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2469    Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 4:54.25 ( 294.25 sec) Binary
2471    Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2472    Date: 05/18/06 Time: 10:33:08 CPU Time: 0 0: 4:58.72 ( 298.72 sec) Binary
2474    Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2475    Date: 05/18/06 Time: 10:33:13 CPU Time: 0 0: 5: 3.73 ( 303.73 sec) Binary
2477    Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2478    Date: 05/18/06 Time: 10:33:18 CPU Time: 0 0: 5: 9.12 ( 309.12 sec) Binary
2481    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2643    CPU Time (this time step) = 0.28 sec = 0.00008 hr
2644    CPU Time (total for run) = 392.16 sec = 0.10893 hr
```

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 2645    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 2497     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2498     CPU Time (total for run) = 313.54 sec = 0.08709 hr
 2499    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 3321     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
 3323     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3324     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
 3329     ****************************************************************************
 3330     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3331     * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3332     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
 3175     Date: 05/18/06 Time: 10:33:23 CPU Time: 0 0: 5:13.57 ( 313.57 sec) ASCII
 3177     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3178     Date: 05/18/06 Time: 10:33:23 CPU Time: 0 0: 5:13.57 ( 313.57 sec) Binary
 3183     ****************************************************************************
 3184     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3185     * Completed: 05/18/06 at 10:33:23 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3186     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 357

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_VMS82_V500_ES47_TEST7_R007.OUT;1
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BF2_QB0600_ES47_TEST7_V008_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:28:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_TEST7_R008_QA0500.INP;1
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   72     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   72     ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R008]BF2_VMS82_V500_ES47_TEST7_R008.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
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  237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264     112 0 0 H2OFLOWIN Water inflow rate kg/s
  265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
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  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ----------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
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  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     -----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     -----------------------------------------------------------------------------------
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************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1059     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 1.545000E+00
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 1.545000E+00
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.092400E+00
 1114     H2O coefficient = -1.815200E+00
 1115     Fe coefficient = -1.000000E+00
```

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Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 2:
H2 coefficient = 1.545000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = -1.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 3:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 4:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 5:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 6:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 7:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Wicking term (SATWICK) = 0.000000E+00
Humid rates to be smoothed? (LARXN) = T
Concentration rates to be smoothed? (LARXN2) = F
Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
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 1194     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.092400E+00
 1069     H2O coefficient = 1.815200E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.545000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 32.61 sec = 0.00906 hr
 1774     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 1626     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1627     CPU Time (total for run) = 29.80 sec = 0.00828 hr
 1628     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 2450     Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) ASCII
 2452     Time Step No. = 176 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 ( 34.70 sec) Binary
 2458     Time Step No. = 200 Elapsed Time = 1.053791E+00 days
 2459     Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 ( 38.00 sec) Binary
 2461     Time Step No. = 220 Elapsed Time = 9.183050E+01 days
 2462     Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 ( 42.45 sec) Binary
 2464     Time Step No. = 240 Elapsed Time = 2.153105E+03 days
 2465     Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 ( 48.11 sec) Binary
 2467     Time Step No. = 260 Elapsed Time = 5.087922E+03 days
 2468     Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 ( 53.27 sec) Binary
 2470     Time Step No. = 280 Elapsed Time = 1.243792E+04 days
 2471     Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 ( 59.94 sec) Binary
 2473     Time Step No. = 300 Elapsed Time = 1.314808E+04 days
 2474     Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 ( 63.51 sec) Binary
 2476     Time Step No. = 320 Elapsed Time = 1.875956E+04 days
 2477     Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 ( 69.66 sec) Binary
 2479     Time Step No. = 340 Elapsed Time = 3.652769E+04 days
 2480     Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 ( 75.10 sec) Binary
 2482     Time Step No. = 360 Elapsed Time = 3.666039E+04 days
 2483     Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
 2485     Time Step No. = 380 Elapsed Time = 3.666877E+04 days
 2486     Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 ( 81.59 sec) Binary
 2488     Time Step No. = 400 Elapsed Time = 3.739498E+04 days
 2489     Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 ( 85.10 sec) Binary
 2491     Time Step No. = 420 Elapsed Time = 5.109122E+04 days
 2492     Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 ( 92.48 sec) Binary
 2494     Time Step No. = 440 Elapsed Time = 5.170121E+04 days
 2495     Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 ( 101.94 sec) Binary
 2497     Time Step No. = 460 Elapsed Time = 5.298682E+04 days
 2498     Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
 2500     Time Step No. = 480 Elapsed Time = 7.084490E+04 days
 2501     Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 ( 112.56 sec) Binary
 2503     Time Step No. = 500 Elapsed Time = 8.094102E+04 days
 2504     Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 ( 120.20 sec) Binary
 2506     Time Step No. = 520 Elapsed Time = 8.631599E+04 days
 2507     Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 ( 126.55 sec) Binary
 2509     Time Step No. = 540 Elapsed Time = 8.786148E+04 days
 2510     Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 ( 129.99 sec) Binary
 2512     Time Step No. = 560 Elapsed Time = 1.041757E+05 days
 2513     Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 ( 136.66 sec) Binary
 2515     Time Step No. = 580 Elapsed Time = 1.043219E+05 days
 2516     Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 ( 144.39 sec) Binary
 2518     Time Step No. = 600 Elapsed Time = 1.044755E+05 days
 2519     Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
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2521    Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522    Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 ( 155.09 sec) Binary
2524    Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525    Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 ( 163.67 sec) Binary
2527    Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528    Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 ( 171.84 sec) Binary
2530    Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531    Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 ( 177.41 sec) Binary
2533    Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534    Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 ( 181.41 sec) Binary
2536    Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537    Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 ( 187.32 sec) Binary
2539    Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540    Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 ( 196.43 sec) Binary
2542    Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543    Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 ( 202.20 sec) Binary
2545    Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546    Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 ( 206.39 sec) Binary
2548    Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549    Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 ( 212.85 sec) Binary
2551    Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552    Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 ( 222.09 sec) Binary
2554    Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555    Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 ( 229.64 sec) Binary
2557    Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558    Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 ( 235.16 sec) Binary
2560    Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561    Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 ( 242.23 sec) Binary
2563    Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564    Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 ( 246.46 sec) Binary
2566    Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567    Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 ( 249.04 sec) Binary
2569    Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570    Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 ( 250.71 sec) Binary
2572    Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573    Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 ( 254.70 sec) Binary
2575    Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576    Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 ( 262.52 sec) Binary
2578    Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579    Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 ( 267.53 sec) Binary
2581    Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582    Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 ( 276.26 sec) Binary
2584    Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585    Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 ( 284.48 sec) Binary
2587    Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588    Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 ( 294.62 sec) Binary
2590    Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591    Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 ( 299.77 sec) Binary
2593    Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594    Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 ( 307.80 sec) Binary
2596    Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597    Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 ( 314.48 sec) Binary
2599    Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600    Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 ( 321.81 sec) Binary
2602    Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603    Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 ( 328.16 sec) Binary
2605    Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606    Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 ( 336.94 sec) Binary
2608    Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609    Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 ( 346.00 sec) Binary
2611    Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612    Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 ( 353.21 sec) Binary
2614    Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615    Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 ( 360.55 sec) Binary
2617    Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618    Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 ( 370.21 sec) Binary
2620    Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621    Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 ( 375.94 sec) Binary
2623    Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624    Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 ( 383.60 sec) Binary
2626    Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627    Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 ( 392.43 sec) Binary
2629    Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630    Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 ( 399.16 sec) Binary
2632    Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633    Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 ( 402.55 sec) Binary
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2635     Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636     Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 ( 410.59 sec) Binary
2638     Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639     Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 ( 414.29 sec) Binary
2641     Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642     Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 ( 422.22 sec) Binary
2644     Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645     Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 ( 428.96 sec) Binary
2647     Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648     Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 ( 433.09 sec) Binary
2650     Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651     Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 ( 438.70 sec) Binary
2653     Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654     Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 ( 445.83 sec) Binary
2656     Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657     Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 ( 451.23 sec) Binary
2659     Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660     Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 ( 455.99 sec) Binary
2662     Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663     Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 ( 460.13 sec) Binary
2666     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
2304     Date: 05/18/06 Time: 10:29:26 CPU Time: 0 0: 0:29.82 ( 29.82 sec) ASCII
2306     Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2307     Date: 05/18/06 Time: 10:29:26 CPU Time: 0 0: 0:29.82 ( 29.82 sec) Binary
2309     Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2310     Date: 05/18/06 Time: 10:29:28 CPU Time: 0 0: 0:31.60 ( 31.60 sec) Binary
2312     Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2313     Date: 05/18/06 Time: 10:29:30 CPU Time: 0 0: 0:34.39 ( 34.39 sec) Binary
2315     Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2316     Date: 05/18/06 Time: 10:29:34 CPU Time: 0 0: 0:38.25 ( 38.25 sec) Binary
2318     Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2319     Date: 05/18/06 Time: 10:29:39 CPU Time: 0 0: 0:43.34 ( 43.34 sec) Binary
2321     Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2322     Date: 05/18/06 Time: 10:29:44 CPU Time: 0 0: 0:47.97 ( 47.97 sec) Binary
2324     Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2325     Date: 05/18/06 Time: 10:29:50 CPU Time: 0 0: 0:53.94 ( 53.94 sec) Binary
2327     Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2328     Date: 05/18/06 Time: 10:29:53 CPU Time: 0 0: 0:57.13 ( 57.13 sec) Binary
2330     Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2331     Date: 05/18/06 Time: 10:29:59 CPU Time: 0 0: 1: 2.63 ( 62.63 sec) Binary
2333     Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2334     Date: 05/18/06 Time: 10:30:04 CPU Time: 0 0: 1: 7.49 ( 67.49 sec) Binary
2336     Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2337     Date: 05/18/06 Time: 10:30:08 CPU Time: 0 0: 1:11.59 ( 71.59 sec) Binary
2339     Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2340     Date: 05/18/06 Time: 10:30:09 CPU Time: 0 0: 1:13.32 ( 73.32 sec) Binary
2342     Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2343     Date: 05/18/06 Time: 10:30:13 CPU Time: 0 0: 1:16.47 ( 76.47 sec) Binary
2345     Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2346     Date: 05/18/06 Time: 10:30:19 CPU Time: 0 0: 1:23.10 ( 83.10 sec) Binary
2348     Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2349     Date: 05/18/06 Time: 10:30:28 CPU Time: 0 0: 1:31.56 ( 91.56 sec) Binary
2351     Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2352     Date: 05/18/06 Time: 10:30:33 CPU Time: 0 0: 1:36.93 ( 96.93 sec) Binary
2354     Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2355     Date: 05/18/06 Time: 10:30:37 CPU Time: 0 0: 1:41.16 ( 101.16 sec) Binary
2357     Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2358     Date: 05/18/06 Time: 10:30:44 CPU Time: 0 0: 1:47.76 ( 107.76 sec) Binary
2360     Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2361     Date: 05/18/06 Time: 10:30:49 CPU Time: 0 0: 1:53.07 ( 113.07 sec) Binary
2363     Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2364     Date: 05/18/06 Time: 10:30:52 CPU Time: 0 0: 1:55.93 ( 115.93 sec) Binary
2366     Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2367     Date: 05/18/06 Time: 10:30:58 CPU Time: 0 0: 2: 1.53 ( 121.53 sec) Binary
2369     Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2370     Date: 05/18/06 Time: 10:31:04 CPU Time: 0 0: 2: 7.95 ( 127.95 sec) Binary
2372     Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2373     Date: 05/18/06 Time: 10:31:07 CPU Time: 0 0: 2:10.80 ( 130.80 sec) Binary
2375     Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2376     Date: 05/18/06 Time: 10:31:13 CPU Time: 0 0: 2:16.28 ( 136.28 sec) Binary
2378     Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2379     Date: 05/18/06 Time: 10:31:19 CPU Time: 0 0: 2:22.92 ( 142.92 sec) Binary
2381     Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2382     Date: 05/18/06 Time: 10:31:26 CPU Time: 0 0: 2:29.22 ( 149.22 sec) Binary
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2384    Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2385    Date: 05/18/06 Time: 10:31:30 CPU Time: 0 0: 2:33.77 ( 153.77 sec) Binary
2387    Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2388    Date: 05/18/06 Time: 10:31:33 CPU Time: 0 0: 2:37.12 ( 157.12 sec) Binary
2390    Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2391    Date: 05/18/06 Time: 10:31:38 CPU Time: 0 0: 2:42.11 ( 162.11 sec) Binary
2393    Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2394    Date: 05/18/06 Time: 10:31:46 CPU Time: 0 0: 2:49.81 ( 169.81 sec) Binary
2396    Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2397    Date: 05/18/06 Time: 10:31:51 CPU Time: 0 0: 2:54.63 ( 174.63 sec) Binary
2399    Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2400    Date: 05/18/06 Time: 10:31:55 CPU Time: 0 0: 2:58.11 ( 178.11 sec) Binary
2402    Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2403    Date: 05/18/06 Time: 10:32:00 CPU Time: 0 0: 3: 3.57 ( 183.57 sec) Binary
2405    Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2406    Date: 05/18/06 Time: 10:32:08 CPU Time: 0 0: 3:11.35 ( 191.35 sec) Binary
2408    Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2409    Date: 05/18/06 Time: 10:32:14 CPU Time: 0 0: 3:17.64 ( 197.64 sec) Binary
2411    Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2412    Date: 05/18/06 Time: 10:32:19 CPU Time: 0 0: 3:22.23 ( 202.23 sec) Binary
2414    Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2415    Date: 05/18/06 Time: 10:32:25 CPU Time: 0 0: 3:28.14 ( 208.14 sec) Binary
2417    Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2418    Date: 05/18/06 Time: 10:32:28 CPU Time: 0 0: 3:31.85 ( 211.85 sec) Binary
2420    Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2421    Date: 05/18/06 Time: 10:32:31 CPU Time: 0 0: 3:34.23 ( 214.23 sec) Binary
2423    Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2424    Date: 05/18/06 Time: 10:32:32 CPU Time: 0 0: 3:35.79 ( 215.79 sec) Binary
2426    Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2427    Date: 05/18/06 Time: 10:32:36 CPU Time: 0 0: 3:39.47 ( 219.47 sec) Binary
2429    Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2430    Date: 05/18/06 Time: 10:32:43 CPU Time: 0 0: 3:46.65 ( 226.65 sec) Binary
2432    Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2433    Date: 05/18/06 Time: 10:32:48 CPU Time: 0 0: 3:51.23 ( 231.23 sec) Binary
2435    Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2436    Date: 05/18/06 Time: 10:32:56 CPU Time: 0 0: 3:59.29 ( 239.29 sec) Binary
2438    Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2439    Date: 05/18/06 Time: 10:33:03 CPU Time: 0 0: 4: 6.82 ( 246.82 sec) Binary
2441    Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2442    Date: 05/18/06 Time: 10:33:12 CPU Time: 0 0: 4:15.71 ( 255.71 sec) Binary
2444    Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2445    Date: 05/18/06 Time: 10:33:17 CPU Time: 0 0: 4:20.04 ( 260.04 sec) Binary
2447    Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2448    Date: 05/18/06 Time: 10:33:24 CPU Time: 0 0: 4:26.99 ( 266.99 sec) Binary
2450    Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2451    Date: 05/18/06 Time: 10:33:30 CPU Time: 0 0: 4:33.29 ( 273.29 sec) Binary
2453    Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2454    Date: 05/18/06 Time: 10:33:37 CPU Time: 0 0: 4:40.04 ( 280.04 sec) Binary
2456    Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2457    Date: 05/18/06 Time: 10:33:42 CPU Time: 0 0: 4:45.60 ( 285.60 sec) Binary
2459    Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2460    Date: 05/18/06 Time: 10:33:50 CPU Time: 0 0: 4:53.29 ( 293.29 sec) Binary
2462    Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2463    Date: 05/18/06 Time: 10:33:58 CPU Time: 0 0: 5: 1.61 ( 301.61 sec) Binary
2465    Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2466    Date: 05/18/06 Time: 10:34:05 CPU Time: 0 0: 5: 8.16 ( 308.16 sec) Binary
2468    Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2469    Date: 05/18/06 Time: 10:34:12 CPU Time: 0 0: 5:14.82 ( 314.82 sec) Binary
2471    Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2472    Date: 05/18/06 Time: 10:34:21 CPU Time: 0 0: 5:23.70 ( 323.70 sec) Binary
2474    Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2475    Date: 05/18/06 Time: 10:34:26 CPU Time: 0 0: 5:28.70 ( 328.70 sec) Binary
2477    Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2478    Date: 05/18/06 Time: 10:34:32 CPU Time: 0 0: 5:35.32 ( 335.32 sec) Binary
2480    Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2481    Date: 05/18/06 Time: 10:34:39 CPU Time: 0 0: 5:42.39 ( 342.39 sec) Binary
2483    Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2484    Date: 05/18/06 Time: 10:34:45 CPU Time: 0 0: 5:47.81 ( 347.81 sec) Binary
2486    Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2487    Date: 05/18/06 Time: 10:34:47 CPU Time: 0 0: 5:50.50 ( 350.50 sec) Binary
2489    Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2490    Date: 05/18/06 Time: 10:34:54 CPU Time: 0 0: 5:56.88 ( 356.88 sec) Binary
2492    Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2493    Date: 05/18/06 Time: 10:34:57 CPU Time: 0 0: 5:59.87 ( 359.87 sec) Binary
2495    Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2496    Date: 05/18/06 Time: 10:35:03 CPU Time: 0 0: 6: 6.25 ( 366.25 sec) Binary
```

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 2498     Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
 2499     Date: 05/18/06 Time: 10:35:09 CPU Time: 0 0: 6:11.67 ( 371.67 sec) Binary
 2501     Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
 2502     Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 6:14.95 ( 374.95 sec) Binary
 2504     Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
 2505     Date: 05/18/06 Time: 10:35:17 CPU Time: 0 0: 6:19.45 ( 379.45 sec) Binary
 2507     Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
 2508     Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
 2510     Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
 2511     Date: 05/18/06 Time: 10:35:27 CPU Time: 0 0: 6:29.64 ( 389.64 sec) Binary
 2513     Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
 2514     Date: 05/18/06 Time: 10:35:31 CPU Time: 0 0: 6:33.75 ( 393.75 sec) Binary
 2516     Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
 2517     Date: 05/18/06 Time: 10:35:34 CPU Time: 0 0: 6:37.02 ( 397.02 sec) Binary
 2520     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 2682     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2683     CPU Time (total for run) = 463.86 sec = 0.12885 hr
 2684     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 2536     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 2537     CPU Time (total for run) = 399.97 sec = 0.11110 hr
 2538     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 3360     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
 3362     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
 3368     ****************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
 3214     Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 6:39.99 ( 399.99 sec) ASCII
 3216     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3217     Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 6:39.99 ( 399.99 sec) Binary
 3222     ****************************************************************************
 3223     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3224     * Completed: 05/18/06 at 10:35:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3225     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 383

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_VMS82_V500_ES47_TEST7_R008.OUT;1
```

BF2_QB0600_ES47_TEST7_V009_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:33:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
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   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_TEST7_R009_QA0500.INP;1
   62     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R009]BF2_VMS82_V500_ES47_TEST7_R009.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-05 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-05 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
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219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
 200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
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  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
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695 26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
696 27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
697 --
****
****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
844 39 CAVITY_5
846 Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
828 Special material index numbers:
****
****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
860 where IC's will be reset (NMATRESET) = 5
861 Material type indexes of material regions
862 where IC's will be reset (MATRESET) = 7 8 9 10 39
864 Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
842 where IC's will be reset (NMATRESET) = 4
843 Material type indexes of material regions
844 where IC's will be reset (MATRESET) = 7 8 9 10
846 Borehole matl index number (MAT_BOREHOLE) = 0
****
****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
869 instead of Input IC's for the Cavities
870 [0=No, 1=Yes] (ICWASTE) = 1
872 Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
873 Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
874 Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
875 Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
876 Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
877 Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
878 Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
879 Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
880 Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
881 Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
883 --
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
851 instead of Input IC's for the Waste
852 [0=No, 1=Yes] (ICWASTE) = 1
854 Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
855 Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
856 Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
857 Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
859 --
****
****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
949 39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
950 TOL = 1.0000E-02
951 SOCEFFMIN = 1.0000E-03
953 Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
926 Fracture model will be used? (KFRACTURE): T
****
****
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
1086 Intrinsic reaction rate constants? (LINTRIN): F
1088 Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
1059 Reaction rate constants (RK):
****

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1096    MgO hydration reaction rate constants:
 1097    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100    Gas generation factors for biodegradation reaction:
 1101    Waste Area # 1
 1102    H2/H2S production (RXH2S) = 1.612000E+00
 1103    CO2 production (RXCO2) = 0.000000E+00
 1105    Gas generation factors for biodegradation reaction:
 1106    Waste Area # 2
 1107    H2/H2S production (RXH2S) = 1.612000E+00
 1108    CO2 production (RXCO2) = 0.000000E+00
 1110    Saturation cutoff value (SOCMIN): 0.000000E+00
 1112    Stoichiometric coeff's for Rxn 1:
 1113    H2 coefficient = 1.031300E+00
 1114    H2O coefficient = -1.937500E+00
 1115    Fe coefficient = -1.000000E+00
 1116    Bio coefficient = 0.000000E+00
 1117    Fe(OH)2 coefficient = 0.000000E+00
 1118    FeS coefficient = 0.000000E+00
 1119    MgO coefficient = 0.000000E+00
 1120    Mg(OH)2 coefficient = 0.000000E+00
 1121    MgCO3 coefficient = 0.000000E+00
 1123    Stoichiometric coeff's for Rxn 2:
 1124    H2 coefficient = 1.612000E+00
 1125    H2O coefficient = 0.000000E+00
 1126    Fe coefficient = 0.000000E+00
 1127    Bio coefficient = -1.000000E+00
 1128    Fe(OH)2 coefficient = 0.000000E+00
 1129    FeS coefficient = 0.000000E+00
 1130    MgO coefficient = 0.000000E+00
 1131    Mg(OH)2 coefficient = 0.000000E+00
 1132    MgCO3 coefficient = 0.000000E+00
 1134    Stoichiometric coeff's for Rxn 3:
 1135    H2 coefficient = 0.000000E+00
 1136    H2O coefficient = 0.000000E+00
 1137    Fe coefficient = 0.000000E+00
 1138    Bio coefficient = 0.000000E+00
 1139    Fe(OH)2 coefficient = 0.000000E+00
 1140    FeS coefficient = 0.000000E+00
 1141    MgO coefficient = 0.000000E+00
 1142    Mg(OH)2 coefficient = 0.000000E+00
 1143    MgCO3 coefficient = 0.000000E+00
 1145    Stoichiometric coeff's for Rxn 4:
 1146    H2 coefficient = 0.000000E+00
 1147    H2O coefficient = 0.000000E+00
 1148    Fe coefficient = 0.000000E+00
 1149    Bio coefficient = 0.000000E+00
 1150    Fe(OH)2 coefficient = 0.000000E+00
 1151    FeS coefficient = 0.000000E+00
 1152    MgO coefficient = 0.000000E+00
 1153    Mg(OH)2 coefficient = 0.000000E+00
 1154    MgCO3 coefficient = 0.000000E+00
 1156    Stoichiometric coeff's for Rxn 5:
 1157    H2 coefficient = 0.000000E+00
 1158    H2O coefficient = 0.000000E+00
 1159    Fe coefficient = 0.000000E+00
 1160    Bio coefficient = 0.000000E+00
 1161    Fe(OH)2 coefficient = 0.000000E+00
 1162    FeS coefficient = 0.000000E+00
 1163    MgO coefficient = 0.000000E+00
 1164    Mg(OH)2 coefficient = 0.000000E+00
 1165    MgCO3 coefficient = 0.000000E+00
 1167    Stoichiometric coeff's for Rxn 6:
 1168    H2 coefficient = 0.000000E+00
 1169    H2O coefficient = 0.000000E+00
 1170    Fe coefficient = 0.000000E+00
 1171    Bio coefficient = 0.000000E+00
 1172    Fe(OH)2 coefficient = 0.000000E+00
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 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.031300E+00
 1069     H2O coefficient = 1.937500E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.612000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
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 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
*******************************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 59.73 sec = 0.01659 hr
 1774    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 1626     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1627     CPU Time (total for run) = 52.29 sec = 0.01453 hr
 1628    ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 2450     Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 ( 59.74 sec) ASCII
 2452     Time Step No. = 266 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
 2455     Time Step No. = 280 Elapsed Time = 1.358585E-02 days
 2456     Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 ( 65.15 sec) Binary
 2458     Time Step No. = 300 Elapsed Time = 8.176210E-01 days
 2459     Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 ( 69.55 sec) Binary
 2461     Time Step No. = 320 Elapsed Time = 2.056227E+01 days
 2462     Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 ( 72.89 sec) Binary
 2464     Time Step No. = 340 Elapsed Time = 3.883849E+02 days
 2465     Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 ( 77.15 sec) Binary
 2467     Time Step No. = 360 Elapsed Time = 2.773294E+03 days
 2468     Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 ( 83.42 sec) Binary
 2470     Time Step No. = 380 Elapsed Time = 6.744221E+03 days
 2471     Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 ( 97.17 sec) Binary
 2473     Time Step No. = 400 Elapsed Time = 6.767595E+03 days
 2474     Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 ( 99.45 sec) Binary
 2476     Time Step No. = 420 Elapsed Time = 6.921045E+03 days
 2477     Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 ( 107.65 sec) Binary
 2479     Time Step No. = 440 Elapsed Time = 7.006907E+03 days
 2480     Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 ( 110.59 sec) Binary
 2482     Time Step No. = 460 Elapsed Time = 7.220026E+03 days
 2483     Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 ( 119.64 sec) Binary
 2485     Time Step No. = 480 Elapsed Time = 7.377731E+03 days
 2486     Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 ( 122.92 sec) Binary
 2488     Time Step No. = 500 Elapsed Time = 8.413059E+03 days
 2489     Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 ( 130.47 sec) Binary
 2491     Time Step No. = 520 Elapsed Time = 8.706621E+03 days
 2492     Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 ( 139.54 sec) Binary
 2494     Time Step No. = 540 Elapsed Time = 8.731156E+03 days
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2495    Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 ( 141.99 sec) Binary
2497    Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498    Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 ( 150.13 sec) Binary
2500    Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501    Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 ( 153.21 sec) Binary
2503    Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504    Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 ( 161.33 sec) Binary
2506    Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507    Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 ( 165.19 sec) Binary
2509    Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510    Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 ( 174.09 sec) Binary
2512    Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513    Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 ( 183.42 sec) Binary
2515    Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516    Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 ( 185.70 sec) Binary
2518    Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519    Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 ( 193.56 sec) Binary
2521    Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522    Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 ( 196.22 sec) Binary
2524    Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525    Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 ( 204.20 sec) Binary
2527    Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528    Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 ( 213.37 sec) Binary
2530    Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531    Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 ( 215.40 sec) Binary
2533    Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534    Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 ( 223.80 sec) Binary
2536    Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537    Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 ( 226.20 sec) Binary
2539    Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540    Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 ( 233.85 sec) Binary
2542    Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543    Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 ( 237.18 sec) Binary
2545    Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546    Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 ( 242.87 sec) Binary
2548    Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549    Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 ( 254.94 sec) Binary
2551    Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552    Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2554    Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555    Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 ( 264.20 sec) Binary
2557    Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558    Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 ( 276.67 sec) Binary
2560    Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561    Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 ( 280.02 sec) Binary
2563    Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564    Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 ( 293.40 sec) Binary
2566    Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567    Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 ( 295.43 sec) Binary
2569    Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570    Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 ( 299.39 sec) Binary
2572    Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573    Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 ( 310.13 sec) Binary
2575    Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576    Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 ( 319.31 sec) Binary
2578    Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579    Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 ( 321.22 sec) Binary
2581    Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582    Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 ( 324.98 sec) Binary
2584    Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585    Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 ( 334.23 sec) Binary
2587    Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588    Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 ( 342.19 sec) Binary
2590    Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591    Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 ( 346.52 sec) Binary
2593    Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594    Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 ( 359.27 sec) Binary
2596    Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597    Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 ( 362.34 sec) Binary
2599    Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600    Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 ( 367.83 sec) Binary
2602    Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603    Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 ( 380.42 sec) Binary
2605    Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606    Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 ( 383.93 sec) Binary
2608    Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
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2609   Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 ( 392.02 sec) Binary
2611   Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612   Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 ( 400.37 sec) Binary
2614   Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615   Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 ( 402.90 sec) Binary
2617   Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618   Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 ( 412.29 sec) Binary
2620   Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621   Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 ( 415.23 sec) Binary
2623   Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624   Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 ( 423.54 sec) Binary
2626   Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627   Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 ( 432.52 sec) Binary
2629   Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630   Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 ( 435.51 sec) Binary
2632   Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633   Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 ( 438.52 sec) Binary
2635   Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636   Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 ( 441.89 sec) Binary
2638   Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639   Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 ( 445.40 sec) Binary
2641   Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642   Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 ( 448.98 sec) Binary
2644   Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645   Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 ( 452.25 sec) Binary
2647   Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648   Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 ( 455.05 sec) Binary
2650   Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651   Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 ( 463.51 sec) Binary
2653   Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654   Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 ( 467.02 sec) Binary
2656   Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657   Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 ( 477.83 sec) Binary
2659   Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660   Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 ( 480.40 sec) Binary
2662   Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663   Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 ( 489.12 sec) Binary
2665   Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666   Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 ( 492.54 sec) Binary
2668   Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669   Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 ( 501.25 sec) Binary
2671   Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672   Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 ( 504.96 sec) Binary
2674   Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675   Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 ( 513.96 sec) Binary
2677   Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678   Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 ( 517.46 sec) Binary
2680   Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681   Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 8:46.92 ( 526.92 sec) Binary
2683   Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684   Date: 02/14/07 Time: 10:01:29 CPU Time: 0 0: 9: 2.11 ( 542.11 sec) Binary
2686   Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687   Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 9: 4.35 ( 544.35 sec) Binary
2689   Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690   Date: 02/14/07 Time: 10:01:36 CPU Time: 0 0: 9: 8.61 ( 548.61 sec) Binary
2692   Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693   Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 9:20.17 ( 560.17 sec) Binary
2695   Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696   Date: 02/14/07 Time: 10:01:51 CPU Time: 0 0: 9:23.59 ( 563.59 sec) Binary
2698   Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699   Date: 02/14/07 Time: 10:01:57 CPU Time: 0 0: 9:29.87 ( 569.87 sec) Binary
2701   Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702   Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 9:42.61 ( 582.61 sec) Binary
2704   Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705   Date: 02/14/07 Time: 10:02:13 CPU Time: 0 0: 9:46.10 ( 586.10 sec) Binary
2707   Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708   Date: 02/14/07 Time: 10:02:22 CPU Time: 0 0: 9:54.39 ( 594.39 sec) Binary
2710   Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2711   Date: 02/14/07 Time: 10:02:31 CPU Time: 0 0:10: 3.37 ( 603.37 sec) Binary
2713   Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714   Date: 02/14/07 Time: 10:02:33 CPU Time: 0 0:10: 5.81 ( 605.81 sec) Binary
2716   Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717   Date: 02/14/07 Time: 10:02:38 CPU Time: 0 0:10:10.98 ( 610.98 sec) Binary
2719   Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720   Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0:10:21.44 ( 621.44 sec) Binary
2722   Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
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2723    Date: 02/14/07 Time: 10:02:58 CPU Time: 0 0:10:30.92 ( 630.92 sec) Binary
2725    Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726    Date: 02/14/07 Time: 10:03:00 CPU Time: 0 0:10:33.09 ( 633.09 sec) Binary
2728    Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729    Date: 02/14/07 Time: 10:03:08 CPU Time: 0 0:10:40.75 ( 640.75 sec) Binary
2731    Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732    Date: 02/14/07 Time: 10:03:11 CPU Time: 0 0:10:43.90 ( 643.90 sec) Binary
2734    Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735    Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0:10:52.07 ( 652.07 sec) Binary
2737    Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2738    Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0:10:55.69 ( 655.69 sec) Binary
2740    Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741    Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0:11: 2.72 ( 662.72 sec) Binary
2743    Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744    Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0:11:16.72 ( 676.72 sec) Binary
2746    Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747    Date: 02/14/07 Time: 10:03:47 CPU Time: 0 0:11:19.53 ( 679.53 sec) Binary
2749    Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750    Date: 02/14/07 Time: 10:03:52 CPU Time: 0 0:11:24.32 ( 684.32 sec) Binary
2752    Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753    Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0:11:37.13 ( 697.13 sec) Binary
2755    Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756    Date: 02/14/07 Time: 10:04:09 CPU Time: 0 0:11:40.77 ( 700.77 sec) Binary
2758    Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759    Date: 02/14/07 Time: 10:04:17 CPU Time: 0 0:11:48.74 ( 708.74 sec) Binary
2761    Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762    Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0:11:52.88 ( 712.88 sec) Binary
2764    Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765    Date: 02/14/07 Time: 10:04:35 CPU Time: 0 0:12: 7.53 ( 727.53 sec) Binary
2767    Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768    Date: 02/14/07 Time: 10:04:38 CPU Time: 0 0:12:10.40 ( 730.40 sec) Binary
2770    Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771    Date: 02/14/07 Time: 10:04:46 CPU Time: 0 0:12:18.11 ( 738.11 sec) Binary
2773    Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774    Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0:12:21.91 ( 741.91 sec) Binary
2776    Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777    Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0:12:30.71 ( 750.71 sec) Binary
2779    Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780    Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0:12:39.15 ( 759.15 sec) Binary
2782    Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783    Date: 02/14/07 Time: 10:05:10 CPU Time: 0 0:12:42.10 ( 762.10 sec) Binary
2785    Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786    Date: 02/14/07 Time: 10:05:15 CPU Time: 0 0:12:46.90 ( 766.90 sec) Binary
2788    Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789    Date: 02/14/07 Time: 10:05:25 CPU Time: 0 0:12:56.52 ( 776.52 sec) Binary
2791    Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792    Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0:13: 8.96 ( 788.96 sec) Binary
2794    Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795    Date: 02/14/07 Time: 10:05:41 CPU Time: 0 0:13:12.55 ( 792.55 sec) Binary
2797    Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798    Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0:13:19.01 ( 799.01 sec) Binary
2800    Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801    Date: 02/14/07 Time: 10:05:59 CPU Time: 0 0:13:30.78 ( 810.78 sec) Binary
2803    Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804    Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0:13:37.89 ( 817.89 sec) Binary
2806    Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807    Date: 02/14/07 Time: 10:06:14 CPU Time: 0 0:13:45.32 ( 825.32 sec) Binary
2809    Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810    Date: 02/14/07 Time: 10:06:22 CPU Time: 0 0:13:53.65 ( 833.65 sec) Binary
2812    Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813    Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0:14: 4.08 ( 844.08 sec) Binary
2815    Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816    Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0:14:11.21 ( 851.21 sec) Binary
2818    Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819    Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0:14:19.76 ( 859.76 sec) Binary
2821    Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822    Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0:14:30.59 ( 870.59 sec) Binary
2824    Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825    Date: 02/14/07 Time: 10:07:09 CPU Time: 0 0:14:40.74 ( 880.74 sec) Binary
2827    Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828    Date: 02/14/07 Time: 10:07:21 CPU Time: 0 0:14:52.32 ( 892.32 sec) Binary
2830    Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831    Date: 02/14/07 Time: 10:07:31 CPU Time: 0 0:15: 2.56 ( 902.56 sec) Binary
2833    Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834    Date: 02/14/07 Time: 10:07:41 CPU Time: 0 0:15:11.69 ( 911.69 sec) Binary
2836    Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
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2837    Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 ( 921.53 sec) Binary
2839    Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840    Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 ( 931.06 sec) Binary
2842    Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843    Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 ( 940.31 sec) Binary
2845    Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846    Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 ( 951.78 sec) Binary
2848    Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849    Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 ( 962.69 sec) Binary
2851    Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852    Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 ( 971.94 sec) Binary
2854    Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855    Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 ( 980.61 sec) Binary
2857    Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858    Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 ( 988.50 sec) Binary
2860    Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861    Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 ( 996.64 sec) Binary
2863    Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864    Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 ( 1004.37 sec) Binary
2866    Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867    Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 ( 1011.55 sec) Binary
2869    Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870    Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 ( 1019.27 sec) Binary
2872    Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873    Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 ( 1026.44 sec) Binary
2875    Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876    Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 ( 1034.18 sec) Binary
2878    Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879    Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 ( 1041.35 sec) Binary
2881    Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882    Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 ( 1048.80 sec) Binary
2884    Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885    Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 ( 1055.29 sec) Binary
2887    Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888    Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 ( 1062.01 sec) Binary
2890    Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891    Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 ( 1067.89 sec) Binary
2893    Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894    Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 ( 1074.18 sec) Binary
2896    Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897    Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 ( 1079.95 sec) Binary
2899    Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900    Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 ( 1085.71 sec) Binary
2902    Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903    Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 ( 1091.99 sec) Binary
2905    Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906    Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 ( 1097.75 sec) Binary
2908    Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909    Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 ( 1104.04 sec) Binary
2911    Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912    Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 ( 1109.81 sec) Binary
2914    Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915    Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 ( 1116.11 sec) Binary
2917    Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918    Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 ( 1121.88 sec) Binary
2920    Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921    Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 ( 1127.65 sec) Binary
2923    Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924    Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 ( 1133.93 sec) Binary
2926    Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927    Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 ( 1139.70 sec) Binary
2929    Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930    Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 ( 1145.98 sec) Binary
2932    Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 ( 1151.76 sec) Binary
2935    Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936    Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 ( 1158.05 sec) Binary
2938    Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939    Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 ( 1164.26 sec) Binary
2941    Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942    Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 ( 1170.48 sec) Binary
2944    Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945    Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 ( 1177.23 sec) Binary
2947    Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948    Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 ( 1183.43 sec) Binary
2950    Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
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2951    Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 ( 1190.19 sec) Binary
2953    Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954    Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 ( 1196.38 sec) Binary
2956    Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957    Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 ( 1202.59 sec) Binary
2959    Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960    Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 ( 1209.36 sec) Binary
2962    Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963    Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 ( 1215.56 sec) Binary
2965    Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966    Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 ( 1222.31 sec) Binary
2968    Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969    Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 ( 1228.51 sec) Binary
2971    Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972    Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 ( 1235.27 sec) Binary
2974    Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975    Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 ( 1241.48 sec) Binary
2977    Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 ( 1247.36 sec) Binary
2980    Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981    Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 ( 1253.65 sec) Binary
2983    Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984    Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 ( 1259.43 sec) Binary
2986    Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987    Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 ( 1265.74 sec) Binary
2989    Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990    Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 ( 1271.53 sec) Binary
2992    Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993    Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 ( 1277.32 sec) Binary
2995    Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996    Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 ( 1283.61 sec) Binary
2998    Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999    Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 ( 1289.41 sec) Binary
3001    Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002    Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 ( 1295.98 sec) Binary
3004    Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005    Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 ( 1302.19 sec) Binary
3007    Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008    Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 ( 1308.91 sec) Binary
3010    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011    Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 ( 1315.11 sec) Binary
3013    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014    Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 ( 1321.47 sec) Binary
3016    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017    Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 ( 1328.23 sec) Binary
3019    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020    Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 ( 1334.39 sec) Binary
3022    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023    Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 ( 1340.62 sec) Binary
3025    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026    Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 ( 1347.46 sec) Binary
3028    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029    Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 ( 1353.82 sec) Binary
3031    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032    Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 ( 1360.33 sec) Binary
3034    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035    Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 ( 1367.50 sec) Binary
3037    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038    Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 ( 1374.75 sec) Binary
3040    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041    Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 ( 1384.12 sec) Binary
3043    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044    Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 ( 1392.17 sec) Binary
3046    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047    Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 ( 1406.30 sec) Binary
3049    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050    Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 ( 1412.98 sec) Binary
3052    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053    Date: 02/14/07 Time: 10:16:10 CPU Time: 0 0:23:39.31 ( 1419.31 sec) Binary
3055    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056    Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0:23:45.65 ( 1425.65 sec) Binary
3058    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059    Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0:23:52.56 ( 1432.56 sec) Binary
3061    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062    Date: 02/14/07 Time: 10:16:29 CPU Time: 0 0:23:58.88 ( 1438.88 sec) Binary
3064    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
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3065   Date: 02/14/07 Time: 10:16:36 CPU Time: 0 0:24: 5.23 ( 1445.23 sec) Binary
3067   Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068   Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0:24:12.13 ( 1452.13 sec) Binary
3070   Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071   Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0:24:21.23 ( 1461.23 sec) Binary
3073   Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074   Date: 02/14/07 Time: 10:16:54 CPU Time: 0 0:24:23.19 ( 1463.19 sec) Binary
3076   Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077   Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0:24:27.03 ( 1467.03 sec) Binary
3079   Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080   Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0:24:39.78 ( 1479.78 sec) Binary
3082   Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083   Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0:24:43.55 ( 1483.55 sec) Binary
3085   Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086   Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0:24:56.86 ( 1496.86 sec) Binary
3088   Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089   Date: 02/14/07 Time: 10:17:33 CPU Time: 0 0:25: 1.82 ( 1501.82 sec) Binary
3091   Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092   Date: 02/14/07 Time: 10:17:42 CPU Time: 0 0:25:11.13 ( 1511.13 sec) Binary
3094   Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095   Date: 02/14/07 Time: 10:17:52 CPU Time: 0 0:25:21.22 ( 1521.22 sec) Binary
3097   Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098   Date: 02/14/07 Time: 10:18:01 CPU Time: 0 0:25:29.93 ( 1529.93 sec) Binary
3100   Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101   Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0:25:35.01 ( 1535.01 sec) Binary
3103   Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104   Date: 02/14/07 Time: 10:18:15 CPU Time: 0 0:25:43.98 ( 1543.98 sec) Binary
3106   Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107   Date: 02/14/07 Time: 10:18:26 CPU Time: 0 0:25:54.92 ( 1554.92 sec) Binary
3109   Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110   Date: 02/14/07 Time: 10:18:35 CPU Time: 0 0:26: 4.08 ( 1564.08 sec) Binary
3112   Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113   Date: 02/14/07 Time: 10:18:44 CPU Time: 0 0:26:12.77 ( 1572.77 sec) Binary
3115   Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116   Date: 02/14/07 Time: 10:18:53 CPU Time: 0 0:26:22.15 ( 1582.15 sec) Binary
3118   Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119   Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0:26:30.77 ( 1590.77 sec) Binary
3121   Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122   Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0:26:40.02 ( 1600.02 sec) Binary
3124   Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125   Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0:26:47.82 ( 1607.82 sec) Binary
3127   Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128   Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0:26:55.61 ( 1615.61 sec) Binary
3130   Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131   Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0:27: 4.02 ( 1624.02 sec) Binary
3133   Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134   Date: 02/14/07 Time: 10:19:45 CPU Time: 0 0:27:13.81 ( 1633.81 sec) Binary
3136   Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137   Date: 02/14/07 Time: 10:19:52 CPU Time: 0 0:27:20.63 ( 1640.63 sec) Binary
3139   Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140   Date: 02/14/07 Time: 10:19:58 CPU Time: 0 0:27:26.68 ( 1646.68 sec) Binary
3142   Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143   Date: 02/14/07 Time: 10:20:06 CPU Time: 0 0:27:34.69 ( 1654.69 sec) Binary
3145   Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146   Date: 02/14/07 Time: 10:20:08 CPU Time: 0 0:27:37.49 ( 1657.49 sec) Binary
3148   Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149   Date: 02/14/07 Time: 10:20:12 CPU Time: 0 0:27:40.63 ( 1660.63 sec) Binary
3151   Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152   Date: 02/14/07 Time: 10:20:18 CPU Time: 0 0:27:47.05 ( 1667.05 sec) Binary
3154   Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155   Date: 02/14/07 Time: 10:20:25 CPU Time: 0 0:27:54.29 ( 1674.29 sec) Binary
3157   Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158   Date: 02/14/07 Time: 10:20:27 CPU Time: 0 0:27:55.94 ( 1675.94 sec) Binary
3160   Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161   Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0:27:59.13 ( 1679.13 sec) Binary
3163   Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164   Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0:28: 6.47 ( 1686.47 sec) Binary
3166   Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167   Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 ( 1693.19 sec) Binary
3169   Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170   Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 ( 1700.55 sec) Binary
3172   Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173   Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 ( 1708.25 sec) Binary
3175   Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176   Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 ( 1715.17 sec) Binary
3178   Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
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3179    Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 ( 1721.18 sec) Binary
3181    Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182    Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 ( 1727.85 sec) Binary
3184    Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185    Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 ( 1738.11 sec) Binary
3187    Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188    Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 ( 1741.74 sec) Binary
3190    Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191    Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 ( 1747.97 sec) Binary
3193    Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194    Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 ( 1757.13 sec) Binary
3196    Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197    Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 ( 1763.17 sec) Binary
3199    Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200    Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 ( 1769.47 sec) Binary
3202    Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203    Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 ( 1778.51 sec) Binary
3205    Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206    Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 ( 1787.88 sec) Binary
3208    Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209    Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 ( 1796.92 sec) Binary
3211    Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212    Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 ( 1806.98 sec) Binary
3214    Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215    Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 ( 1816.46 sec) Binary
3217    Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218    Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 ( 1825.13 sec) Binary
3220    Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221    Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 ( 1831.16 sec) Binary
3223    Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224    Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 ( 1839.28 sec) Binary
3226    Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227    Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 ( 1847.75 sec) Binary
3229    Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230    Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 ( 1852.06 sec) Binary
3232    Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233    Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 ( 1862.34 sec) Binary
3235    Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236    Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 ( 1869.28 sec) Binary
3238    Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239    Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 ( 1877.25 sec) Binary
3241    Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242    Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 ( 1886.76 sec) Binary
3244    Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245    Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 ( 1890.25 sec) Binary
3247    Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248    Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 ( 1897.26 sec) Binary
3250    Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251    Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 ( 1905.78 sec) Binary
3253    Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254    Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 ( 1913.40 sec) Binary
3256    Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257    Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 ( 1921.39 sec) Binary
3259    Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260    Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 ( 1926.85 sec) Binary
3262    Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263    Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 ( 1934.32 sec) Binary
3265    Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266    Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 ( 1941.87 sec) Binary
3268    Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269    Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 ( 1947.06 sec) Binary
3271    Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272    Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 ( 1953.63 sec) Binary
3274    Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275    Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 ( 1961.92 sec) Binary
3277    Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278    Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 ( 1967.88 sec) Binary
3280    Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281    Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 ( 1975.64 sec) Binary
3283    Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284    Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 ( 1983.99 sec) Binary
3286    Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287    Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 ( 1991.82 sec) Binary
3289    Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290    Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 ( 1996.26 sec) Binary
3292    Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
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 3293     Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 ( 2001.65 sec) Binary
 3295     Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
 3296     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 ( 2007.88 sec) Binary
 3298     Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
 3299     Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 ( 2014.32 sec) Binary
 3302     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 2304     Date: 05/18/06 Time: 10:34:33 CPU Time: 0 0: 0:52.30 ( 52.30 sec) ASCII
 2306     Time Step No. = 266 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:34:33 CPU Time: 0 0: 0:52.30 ( 52.30 sec) Binary
 2309     Time Step No. = 280 Elapsed Time = 1.358585E-02 days
 2310     Date: 05/18/06 Time: 10:34:37 CPU Time: 0 0: 0:56.76 ( 56.76 sec) Binary
 2312     Time Step No. = 300 Elapsed Time = 8.176210E-01 days
 2313     Date: 05/18/06 Time: 10:34:41 CPU Time: 0 0: 1: 0.39 ( 60.39 sec) Binary
 2315     Time Step No. = 320 Elapsed Time = 2.056227E+01 days
 2316     Date: 05/18/06 Time: 10:34:44 CPU Time: 0 0: 1: 3.16 ( 63.16 sec) Binary
 2318     Time Step No. = 340 Elapsed Time = 3.883849E+02 days
 2319     Date: 05/18/06 Time: 10:34:47 CPU Time: 0 0: 1: 6.67 ( 66.67 sec) Binary
 2321     Time Step No. = 360 Elapsed Time = 2.773294E+03 days
 2322     Date: 05/18/06 Time: 10:34:53 CPU Time: 0 0: 1:11.85 ( 71.85 sec) Binary
 2324     Time Step No. = 380 Elapsed Time = 6.744221E+03 days
 2325     Date: 05/18/06 Time: 10:35:04 CPU Time: 0 0: 1:23.20 ( 83.20 sec) Binary
 2327     Time Step No. = 400 Elapsed Time = 6.767595E+03 days
 2328     Date: 05/18/06 Time: 10:35:06 CPU Time: 0 0: 1:25.07 ( 85.07 sec) Binary
 2330     Time Step No. = 420 Elapsed Time = 6.921045E+03 days
 2331     Date: 05/18/06 Time: 10:35:12 CPU Time: 0 0: 1:31.74 ( 91.74 sec) Binary
 2333     Time Step No. = 440 Elapsed Time = 7.006907E+03 days
 2334     Date: 05/18/06 Time: 10:35:15 CPU Time: 0 0: 1:34.10 ( 94.10 sec) Binary
 2336     Time Step No. = 460 Elapsed Time = 7.220026E+03 days
 2337     Date: 05/18/06 Time: 10:35:22 CPU Time: 0 0: 1:41.36 ( 101.36 sec) Binary
 2339     Time Step No. = 480 Elapsed Time = 7.377731E+03 days
 2340     Date: 05/18/06 Time: 10:35:25 CPU Time: 0 0: 1:44.02 ( 104.02 sec) Binary
 2342     Time Step No. = 500 Elapsed Time = 8.413059E+03 days
 2343     Date: 05/18/06 Time: 10:35:31 CPU Time: 0 0: 1:49.92 ( 109.92 sec) Binary
 2345     Time Step No. = 520 Elapsed Time = 8.706621E+03 days
 2346     Date: 05/18/06 Time: 10:35:37 CPU Time: 0 0: 1:56.70 ( 116.70 sec) Binary
 2348     Time Step No. = 540 Elapsed Time = 8.731156E+03 days
 2349     Date: 05/18/06 Time: 10:35:39 CPU Time: 0 0: 1:58.51 ( 118.51 sec) Binary
 2351     Time Step No. = 560 Elapsed Time = 8.783097E+03 days
 2352     Date: 05/18/06 Time: 10:35:45 CPU Time: 0 0: 2: 4.56 ( 124.56 sec) Binary
 2354     Time Step No. = 580 Elapsed Time = 8.873224E+03 days
 2355     Date: 05/18/06 Time: 10:35:48 CPU Time: 0 0: 2: 6.85 ( 126.85 sec) Binary
 2357     Time Step No. = 600 Elapsed Time = 8.967808E+03 days
 2358     Date: 05/18/06 Time: 10:35:54 CPU Time: 0 0: 2:12.91 ( 132.91 sec) Binary
 2360     Time Step No. = 620 Elapsed Time = 9.629958E+03 days
 2361     Date: 05/18/06 Time: 10:35:57 CPU Time: 0 0: 2:15.93 ( 135.93 sec) Binary
 2363     Time Step No. = 640 Elapsed Time = 9.720759E+03 days
 2364     Date: 05/18/06 Time: 10:36:04 CPU Time: 0 0: 2:22.62 ( 142.62 sec) Binary
 2366     Time Step No. = 660 Elapsed Time = 9.817097E+03 days
 2367     Date: 05/18/06 Time: 10:36:10 CPU Time: 0 0: 2:29.55 ( 149.55 sec) Binary
 2369     Time Step No. = 680 Elapsed Time = 9.829974E+03 days
 2370     Date: 05/18/06 Time: 10:36:12 CPU Time: 0 0: 2:31.26 ( 151.26 sec) Binary
 2372     Time Step No. = 700 Elapsed Time = 9.879586E+03 days
 2373     Date: 05/18/06 Time: 10:36:18 CPU Time: 0 0: 2:37.12 ( 157.12 sec) Binary
 2375     Time Step No. = 720 Elapsed Time = 9.926888E+03 days
 2376     Date: 05/18/06 Time: 10:36:20 CPU Time: 0 0: 2:39.19 ( 159.19 sec) Binary
 2378     Time Step No. = 740 Elapsed Time = 9.955795E+03 days
 2379     Date: 05/18/06 Time: 10:36:27 CPU Time: 0 0: 2:45.58 ( 165.58 sec) Binary
 2381     Time Step No. = 760 Elapsed Time = 1.004381E+04 days
 2382     Date: 05/18/06 Time: 10:36:34 CPU Time: 0 0: 2:52.63 ( 172.63 sec) Binary
 2384     Time Step No. = 780 Elapsed Time = 1.005117E+04 days
 2385     Date: 05/18/06 Time: 10:36:35 CPU Time: 0 0: 2:54.23 ( 174.23 sec) Binary
 2387     Time Step No. = 800 Elapsed Time = 1.011334E+04 days
 2388     Date: 05/18/06 Time: 10:36:42 CPU Time: 0 0: 3: 0.51 ( 180.51 sec) Binary
 2390     Time Step No. = 820 Elapsed Time = 1.014038E+04 days
 2391     Date: 05/18/06 Time: 10:36:43 CPU Time: 0 0: 3: 2.32 ( 182.32 sec) Binary
 2393     Time Step No. = 840 Elapsed Time = 1.021957E+04 days
 2394     Date: 05/18/06 Time: 10:36:50 CPU Time: 0 0: 3: 8.58 ( 188.58 sec) Binary
 2396     Time Step No. = 860 Elapsed Time = 1.041817E+04 days
 2397     Date: 05/18/06 Time: 10:36:52 CPU Time: 0 0: 3:11.34 ( 191.34 sec) Binary
 2399     Time Step No. = 880 Elapsed Time = 1.365675E+04 days
 2400     Date: 05/18/06 Time: 10:36:57 CPU Time: 0 0: 3:15.91 ( 195.91 sec) Binary
 2402     Time Step No. = 900 Elapsed Time = 1.556649E+04 days
 2403     Date: 05/18/06 Time: 10:37:06 CPU Time: 0 0: 3:24.91 ( 204.91 sec) Binary
 2405     Time Step No. = 920 Elapsed Time = 1.562828E+04 days
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2406    Date: 05/18/06 Time: 10:37:08 CPU Time: 0 0: 3:27.21 ( 207.21 sec) Binary
2408    Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2409    Date: 05/18/06 Time: 10:37:13 CPU Time: 0 0: 3:31.80 ( 211.80 sec) Binary
2411    Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2412    Date: 05/18/06 Time: 10:37:22 CPU Time: 0 0: 3:41.09 ( 221.09 sec) Binary
2414    Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2415    Date: 05/18/06 Time: 10:37:25 CPU Time: 0 0: 3:43.59 ( 223.59 sec) Binary
2417    Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2418    Date: 05/18/06 Time: 10:37:35 CPU Time: 0 0: 3:53.58 ( 233.58 sec) Binary
2420    Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2421    Date: 05/18/06 Time: 10:37:37 CPU Time: 0 0: 3:55.24 ( 235.24 sec) Binary
2423    Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2424    Date: 05/18/06 Time: 10:37:40 CPU Time: 0 0: 3:58.49 ( 238.49 sec) Binary
2426    Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2427    Date: 05/18/06 Time: 10:37:49 CPU Time: 0 0: 4: 7.49 ( 247.49 sec) Binary
2429    Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2430    Date: 05/18/06 Time: 10:37:56 CPU Time: 0 0: 4:14.49 ( 254.49 sec) Binary
2432    Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2433    Date: 05/18/06 Time: 10:37:57 CPU Time: 0 0: 4:15.94 ( 255.94 sec) Binary
2435    Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2436    Date: 05/18/06 Time: 10:38:00 CPU Time: 0 0: 4:18.81 ( 258.81 sec) Binary
2438    Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2439    Date: 05/18/06 Time: 10:38:07 CPU Time: 0 0: 4:25.87 ( 265.87 sec) Binary
2441    Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2442    Date: 05/18/06 Time: 10:38:14 CPU Time: 0 0: 4:32.29 ( 272.29 sec) Binary
2444    Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2445    Date: 05/18/06 Time: 10:38:17 CPU Time: 0 0: 4:35.87 ( 275.87 sec) Binary
2447    Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2448    Date: 05/18/06 Time: 10:38:28 CPU Time: 0 0: 4:46.43 ( 286.43 sec) Binary
2450    Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2451    Date: 05/18/06 Time: 10:38:30 CPU Time: 0 0: 4:48.99 ( 288.99 sec) Binary
2453    Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2454    Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 4:53.55 ( 293.55 sec) Binary
2456    Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2457    Date: 05/18/06 Time: 10:38:45 CPU Time: 0 0: 5: 4.01 ( 304.01 sec) Binary
2459    Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2460    Date: 05/18/06 Time: 10:38:48 CPU Time: 0 0: 5: 6.89 ( 306.89 sec) Binary
2462    Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2463    Date: 05/18/06 Time: 10:38:55 CPU Time: 0 0: 5:13.59 ( 313.59 sec) Binary
2465    Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2466    Date: 05/18/06 Time: 10:39:02 CPU Time: 0 0: 5:20.53 ( 320.53 sec) Binary
2468    Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2469    Date: 05/18/06 Time: 10:39:04 CPU Time: 0 0: 5:22.63 ( 322.63 sec) Binary
2471    Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2472    Date: 05/18/06 Time: 10:39:12 CPU Time: 0 0: 5:30.46 ( 330.46 sec) Binary
2474    Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2475    Date: 05/18/06 Time: 10:39:14 CPU Time: 0 0: 5:32.92 ( 332.92 sec) Binary
2477    Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2478    Date: 05/18/06 Time: 10:39:21 CPU Time: 0 0: 5:39.82 ( 339.82 sec) Binary
2480    Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2481    Date: 05/18/06 Time: 10:39:29 CPU Time: 0 0: 5:47.32 ( 347.32 sec) Binary
2483    Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2484    Date: 05/18/06 Time: 10:39:31 CPU Time: 0 0: 5:49.76 ( 349.76 sec) Binary
2486    Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2487    Date: 05/18/06 Time: 10:39:34 CPU Time: 0 0: 5:52.22 ( 352.22 sec) Binary
2489    Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2490    Date: 05/18/06 Time: 10:39:37 CPU Time: 0 0: 5:54.97 ( 354.97 sec) Binary
2492    Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2493    Date: 05/18/06 Time: 10:39:39 CPU Time: 0 0: 5:57.80 ( 357.80 sec) Binary
2495    Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2496    Date: 05/18/06 Time: 10:39:42 CPU Time: 0 0: 6: 0.72 ( 360.72 sec) Binary
2498    Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2499    Date: 05/18/06 Time: 10:39:45 CPU Time: 0 0: 6: 3.28 ( 363.28 sec) Binary
2501    Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2502    Date: 05/18/06 Time: 10:39:47 CPU Time: 0 0: 6: 5.38 ( 365.38 sec) Binary
2504    Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2505    Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 6:11.74 ( 371.74 sec) Binary
2507    Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2508    Date: 05/18/06 Time: 10:39:56 CPU Time: 0 0: 6:14.53 ( 374.53 sec) Binary
2510    Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2511    Date: 05/18/06 Time: 10:40:05 CPU Time: 0 0: 6:23.24 ( 383.24 sec) Binary
2513    Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2514    Date: 05/18/06 Time: 10:40:07 CPU Time: 0 0: 6:25.33 ( 385.33 sec) Binary
2516    Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2517    Date: 05/18/06 Time: 10:40:14 CPU Time: 0 0: 6:32.55 ( 392.55 sec) Binary
2519    Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
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2520    Date: 05/18/06 Time: 10:40:17 CPU Time: 0 0: 6:35.38 ( 395.38 sec) Binary
2522    Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2523    Date: 05/18/06 Time: 10:40:24 CPU Time: 0 0: 6:42.54 ( 402.54 sec) Binary
2525    Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2526    Date: 05/18/06 Time: 10:40:27 CPU Time: 0 0: 6:45.62 ( 405.62 sec) Binary
2528    Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2529    Date: 05/18/06 Time: 10:40:34 CPU Time: 0 0: 6:52.68 ( 412.68 sec) Binary
2531    Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2532    Date: 05/18/06 Time: 10:40:37 CPU Time: 0 0: 6:55.33 ( 415.33 sec) Binary
2534    Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2535    Date: 05/18/06 Time: 10:40:44 CPU Time: 0 0: 7: 2.52 ( 422.52 sec) Binary
2537    Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2538    Date: 05/18/06 Time: 10:40:56 CPU Time: 0 0: 7:14.06 ( 434.06 sec) Binary
2540    Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2541    Date: 05/18/06 Time: 10:40:58 CPU Time: 0 0: 7:15.79 ( 435.79 sec) Binary
2543    Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2544    Date: 05/18/06 Time: 10:41:01 CPU Time: 0 0: 7:19.04 ( 439.04 sec) Binary
2546    Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2547    Date: 05/18/06 Time: 10:41:10 CPU Time: 0 0: 7:27.88 ( 447.88 sec) Binary
2549    Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2550    Date: 05/18/06 Time: 10:41:12 CPU Time: 0 0: 7:30.50 ( 450.50 sec) Binary
2552    Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2553    Date: 05/18/06 Time: 10:41:17 CPU Time: 0 0: 7:35.27 ( 455.27 sec) Binary
2555    Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2556    Date: 05/18/06 Time: 10:41:27 CPU Time: 0 0: 7:44.99 ( 464.99 sec) Binary
2558    Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2559    Date: 05/18/06 Time: 10:41:30 CPU Time: 0 0: 7:47.66 ( 467.66 sec) Binary
2561    Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2562    Date: 05/18/06 Time: 10:41:36 CPU Time: 0 0: 7:54.02 ( 474.02 sec) Binary
2564    Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2565    Date: 05/18/06 Time: 10:41:43 CPU Time: 0 0: 8: 0.90 ( 480.90 sec) Binary
2567    Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2568    Date: 05/18/06 Time: 10:41:45 CPU Time: 0 0: 8: 2.78 ( 482.78 sec) Binary
2570    Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2571    Date: 05/18/06 Time: 10:41:49 CPU Time: 0 0: 8: 6.74 ( 486.74 sec) Binary
2573    Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2574    Date: 05/18/06 Time: 10:41:57 CPU Time: 0 0: 8:14.73 ( 494.73 sec) Binary
2576    Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2577    Date: 05/18/06 Time: 10:42:04 CPU Time: 0 0: 8:22.18 ( 502.18 sec) Binary
2579    Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2580    Date: 05/18/06 Time: 10:42:06 CPU Time: 0 0: 8:23.99 ( 503.99 sec) Binary
2582    Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2583    Date: 05/18/06 Time: 10:42:12 CPU Time: 0 0: 8:29.85 ( 509.85 sec) Binary
2585    Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2586    Date: 05/18/06 Time: 10:42:14 CPU Time: 0 0: 8:32.26 ( 512.26 sec) Binary
2588    Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2589    Date: 05/18/06 Time: 10:42:21 CPU Time: 0 0: 8:38.82 ( 518.82 sec) Binary
2591    Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2592    Date: 05/18/06 Time: 10:42:24 CPU Time: 0 0: 8:41.60 ( 521.60 sec) Binary
2594    Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2595    Date: 05/18/06 Time: 10:42:29 CPU Time: 0 0: 8:46.98 ( 526.98 sec) Binary
2597    Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2598    Date: 05/18/06 Time: 10:42:40 CPU Time: 0 0: 8:58.03 ( 538.03 sec) Binary
2600    Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2601    Date: 05/18/06 Time: 10:42:42 CPU Time: 0 0: 9: 0.35 ( 540.35 sec) Binary
2603    Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2604    Date: 05/18/06 Time: 10:42:46 CPU Time: 0 0: 9: 4.34 ( 544.34 sec) Binary
2606    Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2607    Date: 05/18/06 Time: 10:42:57 CPU Time: 0 0: 9:14.69 ( 554.69 sec) Binary
2609    Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2610    Date: 05/18/06 Time: 10:43:00 CPU Time: 0 0: 9:17.65 ( 557.65 sec) Binary
2612    Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2613    Date: 05/18/06 Time: 10:43:06 CPU Time: 0 0: 9:24.09 ( 564.09 sec) Binary
2615    Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2616    Date: 05/18/06 Time: 10:43:10 CPU Time: 0 0: 9:27.45 ( 567.45 sec) Binary
2618    Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2619    Date: 05/18/06 Time: 10:43:22 CPU Time: 0 0: 9:39.36 ( 579.36 sec) Binary
2621    Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2622    Date: 05/18/06 Time: 10:43:24 CPU Time: 0 0: 9:41.52 ( 581.52 sec) Binary
2624    Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2625    Date: 05/18/06 Time: 10:43:29 CPU Time: 0 0: 9:47.27 ( 587.27 sec) Binary
2627    Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2628    Date: 05/18/06 Time: 10:43:32 CPU Time: 0 0: 9:50.11 ( 590.11 sec) Binary
2630    Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2631    Date: 05/18/06 Time: 10:43:39 CPU Time: 0 0: 9:56.70 ( 596.70 sec) Binary
2633    Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
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2634     Date: 05/18/06 Time: 10:43:45 CPU Time: 0 0:10: 3.13 ( 603.13 sec) Binary
2636     Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2637     Date: 05/18/06 Time: 10:43:48 CPU Time: 0 0:10: 5.37 ( 605.37 sec) Binary
2639     Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2640     Date: 05/18/06 Time: 10:43:51 CPU Time: 0 0:10: 9.09 ( 609.09 sec) Binary
2642     Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2643     Date: 05/18/06 Time: 10:43:59 CPU Time: 0 0:10:16.60 ( 616.60 sec) Binary
2645     Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2646     Date: 05/18/06 Time: 10:44:09 CPU Time: 0 0:10:26.45 ( 626.45 sec) Binary
2648     Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2649     Date: 05/18/06 Time: 10:44:12 CPU Time: 0 0:10:29.35 ( 629.35 sec) Binary
2651     Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2652     Date: 05/18/06 Time: 10:44:17 CPU Time: 0 0:10:34.63 ( 634.63 sec) Binary
2654     Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2655     Date: 05/18/06 Time: 10:44:26 CPU Time: 0 0:10:44.20 ( 644.20 sec) Binary
2657     Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2658     Date: 05/18/06 Time: 10:44:32 CPU Time: 0 0:10:49.99 ( 649.99 sec) Binary
2660     Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2661     Date: 05/18/06 Time: 10:44:38 CPU Time: 0 0:10:55.92 ( 655.92 sec) Binary
2663     Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2664     Date: 05/18/06 Time: 10:44:45 CPU Time: 0 0:11: 2.24 ( 662.24 sec) Binary
2666     Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2667     Date: 05/18/06 Time: 10:44:53 CPU Time: 0 0:11:10.14 ( 670.14 sec) Binary
2669     Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2670     Date: 05/18/06 Time: 10:44:58 CPU Time: 0 0:11:15.53 ( 675.53 sec) Binary
2672     Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2673     Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0:11:21.96 ( 681.96 sec) Binary
2675     Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2676     Date: 05/18/06 Time: 10:45:12 CPU Time: 0 0:11:30.03 ( 690.03 sec) Binary
2678     Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2679     Date: 05/18/06 Time: 10:45:20 CPU Time: 0 0:11:37.64 ( 697.64 sec) Binary
2681     Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2682     Date: 05/18/06 Time: 10:45:29 CPU Time: 0 0:11:46.41 ( 706.41 sec) Binary
2684     Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2685     Date: 05/18/06 Time: 10:45:37 CPU Time: 0 0:11:54.49 ( 714.49 sec) Binary
2687     Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2688     Date: 05/18/06 Time: 10:45:44 CPU Time: 0 0:12: 1.87 ( 721.87 sec) Binary
2690     Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2691     Date: 05/18/06 Time: 10:45:53 CPU Time: 0 0:12:10.04 ( 730.04 sec) Binary
2693     Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2694     Date: 05/18/06 Time: 10:46:01 CPU Time: 0 0:12:18.19 ( 738.19 sec) Binary
2696     Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2697     Date: 05/18/06 Time: 10:46:08 CPU Time: 0 0:12:25.89 ( 745.89 sec) Binary
2699     Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2700     Date: 05/18/06 Time: 10:46:18 CPU Time: 0 0:12:35.41 ( 755.41 sec) Binary
2702     Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2703     Date: 05/18/06 Time: 10:46:27 CPU Time: 0 0:12:44.45 ( 764.45 sec) Binary
2705     Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2706     Date: 05/18/06 Time: 10:46:35 CPU Time: 0 0:12:52.14 ( 772.14 sec) Binary
2708     Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2709     Date: 05/18/06 Time: 10:46:42 CPU Time: 0 0:12:59.38 ( 779.38 sec) Binary
2711     Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2712     Date: 05/18/06 Time: 10:46:49 CPU Time: 0 0:13: 5.90 ( 785.90 sec) Binary
2714     Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2715     Date: 05/18/06 Time: 10:46:55 CPU Time: 0 0:13:12.66 ( 792.66 sec) Binary
2717     Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2718     Date: 05/18/06 Time: 10:47:02 CPU Time: 0 0:13:19.07 ( 799.07 sec) Binary
2720     Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2721     Date: 05/18/06 Time: 10:47:08 CPU Time: 0 0:13:25.00 ( 805.00 sec) Binary
2723     Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2724     Date: 05/18/06 Time: 10:47:14 CPU Time: 0 0:13:31.43 ( 811.43 sec) Binary
2726     Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2727     Date: 05/18/06 Time: 10:47:20 CPU Time: 0 0:13:37.37 ( 817.37 sec) Binary
2729     Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2730     Date: 05/18/06 Time: 10:47:26 CPU Time: 0 0:13:43.45 ( 823.45 sec) Binary
2732     Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2733     Date: 05/18/06 Time: 10:47:32 CPU Time: 0 0:13:49.02 ( 829.02 sec) Binary
2735     Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2736     Date: 05/18/06 Time: 10:47:38 CPU Time: 0 0:13:54.81 ( 834.81 sec) Binary
2738     Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2739     Date: 05/18/06 Time: 10:47:43 CPU Time: 0 0:13:59.81 ( 839.81 sec) Binary
2741     Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2742     Date: 05/18/06 Time: 10:47:48 CPU Time: 0 0:14: 5.36 ( 845.36 sec) Binary
2744     Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2745     Date: 05/18/06 Time: 10:47:53 CPU Time: 0 0:14:10.27 ( 850.27 sec) Binary
2747     Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
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2748     Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0:14:15.52 ( 855.52 sec) Binary
2750     Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2751     Date: 05/18/06 Time: 10:48:03 CPU Time: 0 0:14:20.31 ( 860.31 sec) Binary
2753     Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2754     Date: 05/18/06 Time: 10:48:08 CPU Time: 0 0:14:25.11 ( 865.11 sec) Binary
2756     Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2757     Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0:14:30.33 ( 870.33 sec) Binary
2759     Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2760     Date: 05/18/06 Time: 10:48:18 CPU Time: 0 0:14:35.17 ( 875.17 sec) Binary
2762     Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2763     Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0:14:40.79 ( 880.79 sec) Binary
2765     Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2766     Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0:14:45.99 ( 885.99 sec) Binary
2768     Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2769     Date: 05/18/06 Time: 10:48:35 CPU Time: 0 0:14:51.63 ( 891.63 sec) Binary
2771     Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2772     Date: 05/18/06 Time: 10:48:40 CPU Time: 0 0:14:56.83 ( 896.83 sec) Binary
2774     Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2775     Date: 05/18/06 Time: 10:48:45 CPU Time: 0 0:15: 2.01 ( 902.01 sec) Binary
2777     Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2778     Date: 05/18/06 Time: 10:48:51 CPU Time: 0 0:15: 7.67 ( 907.67 sec) Binary
2780     Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2781     Date: 05/18/06 Time: 10:48:56 CPU Time: 0 0:15:12.84 ( 912.84 sec) Binary
2783     Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2784     Date: 05/18/06 Time: 10:49:01 CPU Time: 0 0:15:18.46 ( 918.46 sec) Binary
2786     Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2787     Date: 05/18/06 Time: 10:49:07 CPU Time: 0 0:15:23.65 ( 923.65 sec) Binary
2789     Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2790     Date: 05/18/06 Time: 10:49:12 CPU Time: 0 0:15:29.30 ( 929.30 sec) Binary
2792     Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2793     Date: 05/18/06 Time: 10:49:18 CPU Time: 0 0:15:34.51 ( 934.51 sec) Binary
2795     Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2796     Date: 05/18/06 Time: 10:49:23 CPU Time: 0 0:15:39.69 ( 939.69 sec) Binary
2798     Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2799     Date: 05/18/06 Time: 10:49:28 CPU Time: 0 0:15:45.37 ( 945.37 sec) Binary
2801     Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2802     Date: 05/18/06 Time: 10:49:33 CPU Time: 0 0:15:50.42 ( 950.42 sec) Binary
2804     Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2805     Date: 05/18/06 Time: 10:49:39 CPU Time: 0 0:15:55.81 ( 955.81 sec) Binary
2807     Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2808     Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0:16: 0.83 ( 960.83 sec) Binary
2810     Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2811     Date: 05/18/06 Time: 10:49:49 CPU Time: 0 0:16: 6.00 ( 966.00 sec) Binary
2813     Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2814     Date: 05/18/06 Time: 10:49:55 CPU Time: 0 0:16:11.49 ( 971.49 sec) Binary
2816     Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2817     Date: 05/18/06 Time: 10:50:00 CPU Time: 0 0:16:16.67 ( 976.67 sec) Binary
2819     Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2820     Date: 05/18/06 Time: 10:50:06 CPU Time: 0 0:16:22.23 ( 982.23 sec) Binary
2822     Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2823     Date: 05/18/06 Time: 10:50:11 CPU Time: 0 0:16:27.42 ( 987.42 sec) Binary
2825     Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2826     Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0:16:33.08 ( 993.08 sec) Binary
2828     Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2829     Date: 05/18/06 Time: 10:50:22 CPU Time: 0 0:16:38.27 ( 998.27 sec) Binary
2831     Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2832     Date: 05/18/06 Time: 10:50:27 CPU Time: 0 0:16:43.45 ( 1003.45 sec) Binary
2834     Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2835     Date: 05/18/06 Time: 10:50:33 CPU Time: 0 0:16:49.11 ( 1009.11 sec) Binary
2837     Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2838     Date: 05/18/06 Time: 10:50:38 CPU Time: 0 0:16:54.31 ( 1014.31 sec) Binary
2840     Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2841     Date: 05/18/06 Time: 10:50:43 CPU Time: 0 0:16:59.93 ( 1019.93 sec) Binary
2843     Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2844     Date: 05/18/06 Time: 10:50:49 CPU Time: 0 0:17: 5.12 ( 1025.12 sec) Binary
2846     Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2847     Date: 05/18/06 Time: 10:50:54 CPU Time: 0 0:17:10.32 ( 1030.32 sec) Binary
2849     Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2850     Date: 05/18/06 Time: 10:50:59 CPU Time: 0 0:17:15.97 ( 1035.97 sec) Binary
2852     Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2853     Date: 05/18/06 Time: 10:51:05 CPU Time: 0 0:17:21.15 ( 1041.15 sec) Binary
2855     Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
2856     Date: 05/18/06 Time: 10:51:10 CPU Time: 0 0:17:26.78 ( 1046.78 sec) Binary
2858     Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
2859     Date: 05/18/06 Time: 10:51:15 CPU Time: 0 0:17:31.91 ( 1051.91 sec) Binary
2861     Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
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2862    Date: 05/18/06 Time: 10:51:21 CPU Time: 0 0:17:37.16 ( 1057.16 sec) Binary
2864    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
2865    Date: 05/18/06 Time: 10:51:26 CPU Time: 0 0:17:41.99 ( 1061.99 sec) Binary
2867    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
2868    Date: 05/18/06 Time: 10:51:31 CPU Time: 0 0:17:46.92 ( 1066.92 sec) Binary
2870    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
2871    Date: 05/18/06 Time: 10:51:36 CPU Time: 0 0:17:52.15 ( 1072.15 sec) Binary
2873    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
2874    Date: 05/18/06 Time: 10:51:41 CPU Time: 0 0:17:56.94 ( 1076.94 sec) Binary
2876    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
2877    Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0:18: 1.74 ( 1081.74 sec) Binary
2879    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
2880    Date: 05/18/06 Time: 10:51:51 CPU Time: 0 0:18: 7.00 ( 1087.00 sec) Binary
2882    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
2883    Date: 05/18/06 Time: 10:51:55 CPU Time: 0 0:18:11.84 ( 1091.84 sec) Binary
2885    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
2886    Date: 05/18/06 Time: 10:52:01 CPU Time: 0 0:18:17.12 ( 1097.12 sec) Binary
2888    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
2889    Date: 05/18/06 Time: 10:52:06 CPU Time: 0 0:18:22.73 ( 1102.73 sec) Binary
2891    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
2892    Date: 05/18/06 Time: 10:52:12 CPU Time: 0 0:18:28.40 ( 1108.40 sec) Binary
2894    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
2895    Date: 05/18/06 Time: 10:52:19 CPU Time: 0 0:18:35.39 ( 1115.39 sec) Binary
2897    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
2898    Date: 05/18/06 Time: 10:52:25 CPU Time: 0 0:18:41.56 ( 1121.56 sec) Binary
2900    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
2901    Date: 05/18/06 Time: 10:52:37 CPU Time: 0 0:18:52.70 ( 1132.70 sec) Binary
2903    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
2904    Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0:18:57.87 ( 1137.87 sec) Binary
2906    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
2907    Date: 05/18/06 Time: 10:52:47 CPU Time: 0 0:19: 2.62 ( 1142.62 sec) Binary
2909    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
2910    Date: 05/18/06 Time: 10:52:51 CPU Time: 0 0:19: 7.36 ( 1147.36 sec) Binary
2912    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
2913    Date: 05/18/06 Time: 10:52:57 CPU Time: 0 0:19:12.55 ( 1152.55 sec) Binary
2915    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
2916    Date: 05/18/06 Time: 10:53:01 CPU Time: 0 0:19:17.27 ( 1157.27 sec) Binary
2918    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
2919    Date: 05/18/06 Time: 10:53:06 CPU Time: 0 0:19:21.98 ( 1161.98 sec) Binary
2921    Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
2922    Date: 05/18/06 Time: 10:53:11 CPU Time: 0 0:19:27.19 ( 1167.19 sec) Binary
2924    Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
2925    Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0:19:34.01 ( 1174.01 sec) Binary
2927    Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
2928    Date: 05/18/06 Time: 10:53:20 CPU Time: 0 0:19:35.49 ( 1175.49 sec) Binary
2930    Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
2931    Date: 05/18/06 Time: 10:53:23 CPU Time: 0 0:19:38.40 ( 1178.40 sec) Binary
2933    Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
2934    Date: 05/18/06 Time: 10:53:32 CPU Time: 0 0:19:47.96 ( 1187.96 sec) Binary
2936    Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
2937    Date: 05/18/06 Time: 10:53:35 CPU Time: 0 0:19:50.88 ( 1190.88 sec) Binary
2939    Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
2940    Date: 05/18/06 Time: 10:53:46 CPU Time: 0 0:20: 1.71 ( 1201.71 sec) Binary
2942    Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
2943    Date: 05/18/06 Time: 10:53:50 CPU Time: 0 0:20: 5.81 ( 1205.81 sec) Binary
2945    Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
2946    Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0:20:13.13 ( 1213.13 sec) Binary
2948    Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
2949    Date: 05/18/06 Time: 10:54:05 CPU Time: 0 0:20:20.94 ( 1220.94 sec) Binary
2951    Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
2952    Date: 05/18/06 Time: 10:54:12 CPU Time: 0 0:20:27.79 ( 1227.79 sec) Binary
2954    Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
2955    Date: 05/18/06 Time: 10:54:16 CPU Time: 0 0:20:32.03 ( 1232.03 sec) Binary
2957    Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
2958    Date: 05/18/06 Time: 10:54:24 CPU Time: 0 0:20:39.54 ( 1239.54 sec) Binary
2960    Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
2961    Date: 05/18/06 Time: 10:54:33 CPU Time: 0 0:20:48.62 ( 1248.62 sec) Binary
2963    Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
2964    Date: 05/18/06 Time: 10:54:41 CPU Time: 0 0:20:56.32 ( 1256.32 sec) Binary
2966    Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
2967    Date: 05/18/06 Time: 10:54:48 CPU Time: 0 0:21: 3.75 ( 1263.75 sec) Binary
2969    Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
2970    Date: 05/18/06 Time: 10:54:56 CPU Time: 0 0:21:11.49 ( 1271.49 sec) Binary
2972    Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
2973    Date: 05/18/06 Time: 10:55:03 CPU Time: 0 0:21:18.29 ( 1278.29 sec) Binary
2975    Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
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```
2976 Date: 05/18/06 Time: 10:55:10 CPU Time: 0 0:21:25.48 ( 1285.48 sec) Binary
2978 Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
2979 Date: 05/18/06 Time: 10:55:16 CPU Time: 0 0:21:31.51 ( 1291.51 sec) Binary
2981 Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
2982 Date: 05/18/06 Time: 10:55:23 CPU Time: 0 0:21:38.18 ( 1298.18 sec) Binary
2984 Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
2985 Date: 05/18/06 Time: 10:55:30 CPU Time: 0 0:21:45.02 ( 1305.02 sec) Binary
2987 Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
2988 Date: 05/18/06 Time: 10:55:37 CPU Time: 0 0:21:52.75 ( 1312.75 sec) Binary
2990 Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
2991 Date: 05/18/06 Time: 10:55:43 CPU Time: 0 0:21:58.13 ( 1318.13 sec) Binary
2993 Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
2994 Date: 05/18/06 Time: 10:55:48 CPU Time: 0 0:22: 2.90 ( 1322.90 sec) Binary
2996 Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
2997 Date: 05/18/06 Time: 10:55:54 CPU Time: 0 0:22: 9.22 ( 1329.22 sec) Binary
2999 Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3000 Date: 05/18/06 Time: 10:55:56 CPU Time: 0 0:22:11.42 ( 1331.42 sec) Binary
3002 Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3003 Date: 05/18/06 Time: 10:55:59 CPU Time: 0 0:22:13.87 ( 1333.87 sec) Binary
3005 Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3006 Date: 05/18/06 Time: 10:56:04 CPU Time: 0 0:22:18.93 ( 1338.93 sec) Binary
3008 Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3009 Date: 05/18/06 Time: 10:56:09 CPU Time: 0 0:22:24.66 ( 1344.66 sec) Binary
3011 Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3012 Date: 05/18/06 Time: 10:56:11 CPU Time: 0 0:22:25.97 ( 1345.97 sec) Binary
3014 Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3015 Date: 05/18/06 Time: 10:56:13 CPU Time: 0 0:22:28.50 ( 1348.50 sec) Binary
3017 Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3018 Date: 05/18/06 Time: 10:56:19 CPU Time: 0 0:22:34.35 ( 1354.35 sec) Binary
3020 Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3021 Date: 05/18/06 Time: 10:56:25 CPU Time: 0 0:22:39.88 ( 1359.88 sec) Binary
3023 Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3024 Date: 05/18/06 Time: 10:56:31 CPU Time: 0 0:22:45.91 ( 1365.91 sec) Binary
3026 Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3027 Date: 05/18/06 Time: 10:56:37 CPU Time: 0 0:22:52.23 ( 1372.23 sec) Binary
3029 Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3030 Date: 05/18/06 Time: 10:56:43 CPU Time: 0 0:22:57.95 ( 1377.95 sec) Binary
3032 Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3033 Date: 05/18/06 Time: 10:56:48 CPU Time: 0 0:23: 2.89 ( 1382.89 sec) Binary
3035 Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3036 Date: 05/18/06 Time: 10:56:53 CPU Time: 0 0:23: 8.35 ( 1388.35 sec) Binary
3038 Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3039 Date: 05/18/06 Time: 10:57:02 CPU Time: 0 0:23:16.96 ( 1396.96 sec) Binary
3041 Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3042 Date: 05/18/06 Time: 10:57:05 CPU Time: 0 0:23:20.19 ( 1400.19 sec) Binary
3044 Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3045 Date: 05/18/06 Time: 10:57:10 CPU Time: 0 0:23:25.52 ( 1405.52 sec) Binary
3047 Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3048 Date: 05/18/06 Time: 10:57:18 CPU Time: 0 0:23:33.26 ( 1413.26 sec) Binary
3050 Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3051 Date: 05/18/06 Time: 10:57:23 CPU Time: 0 0:23:38.38 ( 1418.38 sec) Binary
3053 Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3054 Date: 05/18/06 Time: 10:57:29 CPU Time: 0 0:23:43.72 ( 1423.72 sec) Binary
3056 Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3057 Date: 05/18/06 Time: 10:57:36 CPU Time: 0 0:23:51.06 ( 1431.06 sec) Binary
3059 Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3060 Date: 05/18/06 Time: 10:57:43 CPU Time: 0 0:23:58.63 ( 1438.63 sec) Binary
3062 Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3063 Date: 05/18/06 Time: 10:57:51 CPU Time: 0 0:24: 6.08 ( 1446.08 sec) Binary
3065 Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3066 Date: 05/18/06 Time: 10:57:59 CPU Time: 0 0:24:14.39 ( 1454.39 sec) Binary
3068 Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3069 Date: 05/18/06 Time: 10:58:07 CPU Time: 0 0:24:22.26 ( 1462.26 sec) Binary
3071 Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3072 Date: 05/18/06 Time: 10:58:14 CPU Time: 0 0:24:29.48 ( 1469.48 sec) Binary
3074 Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3075 Date: 05/18/06 Time: 10:58:19 CPU Time: 0 0:24:34.49 ( 1474.49 sec) Binary
3077 Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3078 Date: 05/18/06 Time: 10:58:26 CPU Time: 0 0:24:41.28 ( 1481.28 sec) Binary
3080 Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3081 Date: 05/18/06 Time: 10:58:33 CPU Time: 0 0:24:48.32 ( 1488.32 sec) Binary
3083 Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3084 Date: 05/18/06 Time: 10:58:37 CPU Time: 0 0:24:51.93 ( 1491.93 sec) Binary
3086 Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3087 Date: 05/18/06 Time: 10:58:46 CPU Time: 0 0:25: 0.49 ( 1500.49 sec) Binary
3089 Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
```

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 3090     Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0:25: 6.00 ( 1506.00 sec) Binary
 3092     Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
 3093     Date: 05/18/06 Time: 10:58:57 CPU Time: 0 0:25:12.14 ( 1512.14 sec) Binary
 3095     Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
 3096     Date: 05/18/06 Time: 10:59:04 CPU Time: 0 0:25:19.39 ( 1519.39 sec) Binary
 3098     Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
 3099     Date: 05/18/06 Time: 10:59:07 CPU Time: 0 0:25:22.06 ( 1522.06 sec) Binary
 3101     Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
 3102     Date: 05/18/06 Time: 10:59:13 CPU Time: 0 0:25:27.58 ( 1527.58 sec) Binary
 3104     Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
 3105     Date: 05/18/06 Time: 10:59:20 CPU Time: 0 0:25:34.41 ( 1534.41 sec) Binary
 3107     Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
 3108     Date: 05/18/06 Time: 10:59:26 CPU Time: 0 0:25:40.35 ( 1540.35 sec) Binary
 3110     Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
 3111     Date: 05/18/06 Time: 10:59:32 CPU Time: 0 0:25:46.51 ( 1546.51 sec) Binary
 3113     Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
 3114     Date: 05/18/06 Time: 10:59:36 CPU Time: 0 0:25:51.15 ( 1551.15 sec) Binary
 3116     Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
 3117     Date: 05/18/06 Time: 10:59:43 CPU Time: 0 0:25:57.48 ( 1557.48 sec) Binary
 3119     Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
 3120     Date: 05/18/06 Time: 10:59:49 CPU Time: 0 0:26: 3.90 ( 1563.90 sec) Binary
 3122     Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
 3123     Date: 05/18/06 Time: 10:59:54 CPU Time: 0 0:26: 8.34 ( 1568.34 sec) Binary
 3125     Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
 3126     Date: 05/18/06 Time: 10:59:59 CPU Time: 0 0:26:13.95 ( 1573.95 sec) Binary
 3128     Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
 3129     Date: 05/18/06 Time: 11:00:06 CPU Time: 0 0:26:20.91 ( 1580.91 sec) Binary
 3131     Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
 3132     Date: 05/18/06 Time: 11:00:11 CPU Time: 0 0:26:25.90 ( 1585.90 sec) Binary
 3134     Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
 3135     Date: 05/18/06 Time: 11:00:18 CPU Time: 0 0:26:32.45 ( 1592.45 sec) Binary
 3137     Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
 3138     Date: 05/18/06 Time: 11:00:25 CPU Time: 0 0:26:39.49 ( 1599.49 sec) Binary
 3140     Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
 3141     Date: 05/18/06 Time: 11:00:32 CPU Time: 0 0:26:46.08 ( 1606.08 sec) Binary
 3143     Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
 3144     Date: 05/18/06 Time: 11:00:35 CPU Time: 0 0:26:49.81 ( 1609.81 sec) Binary
 3146     Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
 3147     Date: 05/18/06 Time: 11:00:40 CPU Time: 0 0:26:54.30 ( 1614.30 sec) Binary
 3149     Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
 3150     Date: 05/18/06 Time: 11:00:45 CPU Time: 0 0:26:59.58 ( 1619.58 sec) Binary
 3152     Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
 3153     Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.08 ( 1625.08 sec) Binary
 3156     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3318     CPU Time (this time step) = 0.30 sec = 0.00008 hr
 3319     CPU Time (total for run) = 2015.18 sec = 0.55977 hr
 3320     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 3172     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 3173     CPU Time (total for run) = 1625.78 sec = 0.45161 hr
 3174     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3996     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) ASCII
 3998     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3999     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) Binary
 4004     ****************************************************************************
 4005     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4006     * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4007     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
 3850     Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.79 ( 1625.79 sec) ASCII
 3852     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3853     Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0:27: 5.80 ( 1625.80 sec) Binary
 3858     ****************************************************************************
 3859     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3860     * Completed: 05/18/06 at 11:00:51 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3861     ****************************************************************************
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Number of difference sections found: 23
Number of difference records found: 807

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_VMS82_V500_ES47_TEST7_R009.OUT;1
```

BF2_QB0600_ES47_TEST7_V010_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:35:31 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_TEST7_R010_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R010]BF2_VMS82_V500_ES47_TEST7_R010.ROT;1
   87     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
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  262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264     112 0 0 H2OFLOWIN Water inflow rate kg/s
  265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
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  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  828     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ---------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1059     Reaction rate constants (RK):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 1.230000E+00
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 1.230000E+00
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.186400E+00
 1114     H2O coefficient = -1.627100E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
 1119     MgO coefficient = 0.000000E+00
 1120     Mg(OH)2 coefficient = 0.000000E+00
 1121     MgCO3 coefficient = 0.000000E+00
 1123     Stoichiometric coeff's for Rxn 2:
 1124     H2 coefficient = 1.230000E+00
 1125     H2O coefficient = 0.000000E+00
 1126     Fe coefficient = 0.000000E+00
 1127     Bio coefficient = -1.000000E+00
 1128     Fe(OH)2 coefficient = 0.000000E+00
 1129     FeS coefficient = 0.000000E+00
 1130     MgO coefficient = 0.000000E+00
 1131     Mg(OH)2 coefficient = 0.000000E+00
 1132     MgCO3 coefficient = 0.000000E+00
 1134     Stoichiometric coeff's for Rxn 3:
 1135     H2 coefficient = 0.000000E+00
 1136     H2O coefficient = 0.000000E+00
 1137     Fe coefficient = 0.000000E+00
 1138     Bio coefficient = 0.000000E+00
 1139     Fe(OH)2 coefficient = 0.000000E+00
 1140     FeS coefficient = 0.000000E+00
 1141     MgO coefficient = 0.000000E+00
 1142     Mg(OH)2 coefficient = 0.000000E+00
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 1143     MgCO3 coefficient = 0.000000E+00
 1145     Stoichiometric coeff's for Rxn 4:
 1146     H2 coefficient = 0.000000E+00
 1147     H2O coefficient = 0.000000E+00
 1148     Fe coefficient = 0.000000E+00
 1149     Bio coefficient = 0.000000E+00
 1150     Fe(OH)2 coefficient = 0.000000E+00
 1151     FeS coefficient = 0.000000E+00
 1152     MgO coefficient = 0.000000E+00
 1153     Mg(OH)2 coefficient = 0.000000E+00
 1154     MgCO3 coefficient = 0.000000E+00
 1156     Stoichiometric coeff's for Rxn 5:
 1157     H2 coefficient = 0.000000E+00
 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.186400E+00
 1069     H2O coefficient = 1.627100E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.230000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
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 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.38 sec = 0.00649 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 1626     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1627     CPU Time (total for run) = 20.57 sec = 0.00571 hr
 1628     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2450     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 ( 23.39 sec) ASCII
```

```
2452    Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 ( 23.40 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456    Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 ( 23.87 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459    Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 ( 27.65 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462    Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 ( 31.69 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465    Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 ( 37.25 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468    Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 ( 45.86 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471    Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 ( 52.16 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474    Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 ( 56.68 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477    Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 ( 61.80 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480    Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 ( 70.47 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483    Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 ( 76.74 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486    Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 ( 79.98 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489    Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 ( 88.15 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492    Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 ( 91.69 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495    Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 ( 95.44 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498    Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 ( 97.97 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501    Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 ( 102.81 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504    Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507    Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 ( 114.02 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510    Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 ( 118.30 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513    Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 ( 124.96 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516    Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 ( 132.94 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519    Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 ( 140.64 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522    Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 ( 148.07 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525    Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 ( 155.50 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528    Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 ( 161.94 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531    Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 ( 171.42 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534    Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 ( 179.53 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537    Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 ( 189.09 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540    Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 ( 197.84 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543    Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 ( 204.76 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546    Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 ( 213.78 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549    Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 ( 222.74 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552    Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 ( 229.95 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555    Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 ( 235.62 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558    Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 ( 238.15 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561    Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 ( 240.84 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564    Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 ( 242.17 sec) Binary
```

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 2566     Time Step No. = 880 Elapsed Time = 3.673164E+05 days
 2567     Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 ( 244.70 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 3.787894E+05 days
 2570     Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 ( 250.23 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 3.981376E+05 days
 2573     Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 ( 257.91 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 4.776050E+05 days
 2576     Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 ( 265.08 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 6.163774E+05 days
 2579     Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 ( 272.12 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.538495E+05 days
 2582     Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 ( 280.41 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
 2585     Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 ( 288.64 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
 2588     Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 ( 295.14 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
 2591     Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 ( 303.12 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
 2594     Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 ( 311.14 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
 2597     Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 ( 316.21 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
 2600     Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 ( 322.67 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
 2603     Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 ( 327.13 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
 2606     Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 ( 331.46 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
 2609     Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 ( 335.70 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 2304     Date: 05/18/06 Time: 10:35:51 CPU Time: 0 0: 0:20.58 ( 20.58 sec) ASCII
 2306     Time Step No. = 138 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:35:52 CPU Time: 0 0: 0:20.58 ( 20.58 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 1.927161E-02 days
 2310     Date: 05/18/06 Time: 10:35:52 CPU Time: 0 0: 0:20.98 ( 20.98 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 3.062646E+00 days
 2313     Date: 05/18/06 Time: 10:35:55 CPU Time: 0 0: 0:24.16 ( 24.16 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 1.478092E+02 days
 2316     Date: 05/18/06 Time: 10:35:59 CPU Time: 0 0: 0:27.56 ( 27.56 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 2.616479E+03 days
 2319     Date: 05/18/06 Time: 10:36:03 CPU Time: 0 0: 0:31.87 ( 31.87 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 1.564322E+04 days
 2322     Date: 05/18/06 Time: 10:36:10 CPU Time: 0 0: 0:38.55 ( 38.55 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 1.570228E+04 days
 2325     Date: 05/18/06 Time: 10:36:14 CPU Time: 0 0: 0:43.45 ( 43.45 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 1.636574E+04 days
 2328     Date: 05/18/06 Time: 10:36:18 CPU Time: 0 0: 0:47.02 ( 47.02 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 2.627969E+04 days
 2331     Date: 05/18/06 Time: 10:36:22 CPU Time: 0 0: 0:51.28 ( 51.28 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 3.052605E+04 days
 2334     Date: 05/18/06 Time: 10:36:29 CPU Time: 0 0: 0:58.43 ( 58.43 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 3.082160E+04 days
 2337     Date: 05/18/06 Time: 10:36:35 CPU Time: 0 0: 1: 3.98 ( 63.98 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 3.098990E+04 days
 2340     Date: 05/18/06 Time: 10:36:38 CPU Time: 0 0: 1: 6.87 ( 66.87 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 3.652480E+04 days
 2343     Date: 05/18/06 Time: 10:36:45 CPU Time: 0 0: 1:13.78 ( 73.78 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 3.654799E+04 days
 2346     Date: 05/18/06 Time: 10:36:48 CPU Time: 0 0: 1:16.73 ( 76.73 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 3.665586E+04 days
 2349     Date: 05/18/06 Time: 10:36:51 CPU Time: 0 0: 1:19.87 ( 79.87 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 3.668780E+04 days
 2352     Date: 05/18/06 Time: 10:36:53 CPU Time: 0 0: 1:21.97 ( 81.97 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 3.849288E+04 days
 2355     Date: 05/18/06 Time: 10:36:57 CPU Time: 0 0: 1:26.05 ( 86.05 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 4.259472E+04 days
 2358     Date: 05/18/06 Time: 10:37:02 CPU Time: 0 0: 1:30.34 ( 90.34 sec) Binary
 2360     Time Step No. = 480 Elapsed Time = 4.286084E+04 days
 2361     Date: 05/18/06 Time: 10:37:07 CPU Time: 0 0: 1:35.52 ( 95.52 sec) Binary
 2363     Time Step No. = 500 Elapsed Time = 4.373619E+04 days
 2364     Date: 05/18/06 Time: 10:37:11 CPU Time: 0 0: 1:39.22 ( 99.22 sec) Binary
 2366     Time Step No. = 520 Elapsed Time = 6.235496E+04 days
 2367     Date: 05/18/06 Time: 10:37:16 CPU Time: 0 0: 1:44.95 ( 104.95 sec) Binary
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 2369     Time Step No. = 540 Elapsed Time = 7.292165E+04 days
 2370     Date: 05/18/06 Time: 10:37:23 CPU Time: 0 0: 1:51.87 ( 111.87 sec) Binary
 2372     Time Step No. = 560 Elapsed Time = 7.898391E+04 days
 2373     Date: 05/18/06 Time: 10:37:30 CPU Time: 0 0: 1:58.60 ( 118.60 sec) Binary
 2375     Time Step No. = 580 Elapsed Time = 9.913502E+04 days
 2376     Date: 05/18/06 Time: 10:37:36 CPU Time: 0 0: 2: 5.01 ( 125.01 sec) Binary
 2378     Time Step No. = 600 Elapsed Time = 1.286357E+05 days
 2379     Date: 05/18/06 Time: 10:37:43 CPU Time: 0 0: 2:11.30 ( 131.30 sec) Binary
 2381     Time Step No. = 620 Elapsed Time = 1.645239E+05 days
 2382     Date: 05/18/06 Time: 10:37:48 CPU Time: 0 0: 2:16.69 ( 136.69 sec) Binary
 2384     Time Step No. = 640 Elapsed Time = 1.856670E+05 days
 2385     Date: 05/18/06 Time: 10:37:56 CPU Time: 0 0: 2:24.92 ( 144.92 sec) Binary
 2387     Time Step No. = 660 Elapsed Time = 2.030085E+05 days
 2388     Date: 05/18/06 Time: 10:38:04 CPU Time: 0 0: 2:32.15 ( 152.15 sec) Binary
 2390     Time Step No. = 680 Elapsed Time = 2.179414E+05 days
 2391     Date: 05/18/06 Time: 10:38:12 CPU Time: 0 0: 2:40.22 ( 160.22 sec) Binary
 2393     Time Step No. = 700 Elapsed Time = 2.337832E+05 days
 2394     Date: 05/18/06 Time: 10:38:19 CPU Time: 0 0: 2:47.01 ( 167.01 sec) Binary
 2396     Time Step No. = 720 Elapsed Time = 2.687785E+05 days
 2397     Date: 05/18/06 Time: 10:38:24 CPU Time: 0 0: 2:52.39 ( 172.39 sec) Binary
 2399     Time Step No. = 740 Elapsed Time = 3.009523E+05 days
 2400     Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 2:59.42 ( 179.42 sec) Binary
 2402     Time Step No. = 760 Elapsed Time = 3.218089E+05 days
 2403     Date: 05/18/06 Time: 10:38:38 CPU Time: 0 0: 3: 6.61 ( 186.61 sec) Binary
 2405     Time Step No. = 780 Elapsed Time = 3.391516E+05 days
 2406     Date: 05/18/06 Time: 10:38:44 CPU Time: 0 0: 3:12.61 ( 192.61 sec) Binary
 2408     Time Step No. = 800 Elapsed Time = 3.652438E+05 days
 2409     Date: 05/18/06 Time: 10:38:49 CPU Time: 0 0: 3:17.41 ( 197.41 sec) Binary
 2411     Time Step No. = 820 Elapsed Time = 3.652885E+05 days
 2412     Date: 05/18/06 Time: 10:38:51 CPU Time: 0 0: 3:19.56 ( 199.56 sec) Binary
 2414     Time Step No. = 840 Elapsed Time = 3.665818E+05 days
 2415     Date: 05/18/06 Time: 10:38:53 CPU Time: 0 0: 3:21.82 ( 201.82 sec) Binary
 2417     Time Step No. = 860 Elapsed Time = 3.665902E+05 days
 2418     Date: 05/18/06 Time: 10:38:55 CPU Time: 0 0: 3:22.94 ( 202.94 sec) Binary
 2420     Time Step No. = 880 Elapsed Time = 3.673164E+05 days
 2421     Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 3:25.05 ( 205.05 sec) Binary
 2423     Time Step No. = 900 Elapsed Time = 3.787894E+05 days
 2424     Date: 05/18/06 Time: 10:39:02 CPU Time: 0 0: 3:30.21 ( 210.21 sec) Binary
 2426     Time Step No. = 920 Elapsed Time = 3.981376E+05 days
 2427     Date: 05/18/06 Time: 10:39:09 CPU Time: 0 0: 3:37.35 ( 217.35 sec) Binary
 2429     Time Step No. = 940 Elapsed Time = 4.776050E+05 days
 2430     Date: 05/18/06 Time: 10:39:15 CPU Time: 0 0: 3:43.68 ( 223.68 sec) Binary
 2432     Time Step No. = 960 Elapsed Time = 6.163774E+05 days
 2433     Date: 05/18/06 Time: 10:39:22 CPU Time: 0 0: 3:49.84 ( 229.84 sec) Binary
 2435     Time Step No. = 980 Elapsed Time = 8.538495E+05 days
 2436     Date: 05/18/06 Time: 10:39:29 CPU Time: 0 0: 3:57.04 ( 237.04 sec) Binary
 2438     Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
 2439     Date: 05/18/06 Time: 10:39:35 CPU Time: 0 0: 4: 3.73 ( 243.73 sec) Binary
 2441     Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
 2442     Date: 05/18/06 Time: 10:39:41 CPU Time: 0 0: 4: 8.86 ( 248.86 sec) Binary
 2444     Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
 2445     Date: 05/18/06 Time: 10:39:47 CPU Time: 0 0: 4:15.13 ( 255.13 sec) Binary
 2447     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
 2448     Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 4:21.45 ( 261.45 sec) Binary
 2450     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
 2451     Date: 05/18/06 Time: 10:39:57 CPU Time: 0 0: 4:25.44 ( 265.44 sec) Binary
 2453     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
 2454     Date: 05/18/06 Time: 10:40:02 CPU Time: 0 0: 4:30.49 ( 270.49 sec) Binary
 2456     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
 2457     Date: 05/18/06 Time: 10:40:06 CPU Time: 0 0: 4:33.98 ( 273.98 sec) Binary
 2459     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
 2460     Date: 05/18/06 Time: 10:40:09 CPU Time: 0 0: 4:37.35 ( 277.35 sec) Binary
 2462     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
 2463     Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:40.68 ( 280.68 sec) Binary
 2466     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2628     CPU Time (this time step) = 0.07 sec = 0.00002 hr
 2629     CPU Time (total for run) = 336.61 sec = 0.09350 hr
 2630     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 2482     CPU Time (this time step) = 0.06 sec = 0.00002 hr
 2483     CPU Time (total for run) = 281.40 sec = 0.07817 hr
 2484     ******************************************************************************
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 3306     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
 3308     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
 3314     ******************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
 3160     Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:41.41 ( 281.41 sec) ASCII
 3162     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3163     Date: 05/18/06 Time: 10:40:13 CPU Time: 0 0: 4:41.42 ( 281.42 sec) Binary
 3168     ******************************************************************************
 3169     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3170     * Completed: 05/18/06 at 10:40:13 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3171     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 347

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_VMS82_V500_ES47_TEST7_R010.OUT;1
```

BF2_QB0600_ES47_TEST7_V011_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:35:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_TEST7_R011_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.SUM;1
   77     ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.SUM;1
   77     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.BIN;1
   82     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.BIN;1
   82     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
   87     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R011]BF2_VMS82_V500_ES47_TEST7_R011.ROT;1
   87     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
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  243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264     112 0 0 H2OFLOWIN Water inflow rate kg/s
  265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
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  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ----------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
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  846    Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  869    instead of Input IC's for the Cavities
  870    [0=No, 1=Yes] (ICWASTE) = 1
  872    Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873    Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874    Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875    Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876    Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877    Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878    Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879    Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880    Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881    Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883    ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  851    instead of Input IC's for the Waste
  852    [0=No, 1=Yes] (ICWASTE) = 1
  854    Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855    Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856    Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857    Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859    ------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
  949    39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950    TOL = 1.0000E-02
  951    SOCEFFMIN = 1.0000E-03
  953    Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
  926    Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1086    Intrinsic reaction rate constants? (LINTRIN): F
 1088    Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1059    Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1096    MgO hydration reaction rate constants:
 1097    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100    Gas generation factors for biodegradation reaction:
 1101    Waste Area # 1
 1102    H2/H2S production (RXH2S) = 6.797000E-01
 1103    CO2 production (RXCO2) = 0.000000E+00
 1105    Gas generation factors for biodegradation reaction:
 1106    Waste Area # 2
 1107    H2/H2S production (RXH2S) = 6.797000E-01
 1108    CO2 production (RXCO2) = 0.000000E+00
 1110    Saturation cutoff value (SOCMIN): 0.000000E+00
 1112    Stoichiometric coeff's for Rxn 1:
 1113    H2 coefficient = 1.060400E+00
 1114    H2O coefficient = -1.879200E+00
 1115    Fe coefficient = -1.000000E+00
 1116    Bio coefficient = 0.000000E+00
 1117    Fe(OH)2 coefficient = 0.000000E+00
 1118    FeS coefficient = 0.000000E+00
 1119    MgO coefficient = 0.000000E+00
 1120    Mg(OH)2 coefficient = 0.000000E+00
 1121    MgCO3 coefficient = 0.000000E+00
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 1123    Stoichiometric coeff's for Rxn 2:
 1124    H2 coefficient = 6.797000E-01
 1125    H2O coefficient = 0.000000E+00
 1126    Fe coefficient = 0.000000E+00
 1127    Bio coefficient = -1.000000E+00
 1128    Fe(OH)2 coefficient = 0.000000E+00
 1129    FeS coefficient = 0.000000E+00
 1130    MgO coefficient = 0.000000E+00
 1131    Mg(OH)2 coefficient = 0.000000E+00
 1132    MgCO3 coefficient = 0.000000E+00
 1134    Stoichiometric coeff's for Rxn 3:
 1135    H2 coefficient = 0.000000E+00
 1136    H2O coefficient = 0.000000E+00
 1137    Fe coefficient = 0.000000E+00
 1138    Bio coefficient = 0.000000E+00
 1139    Fe(OH)2 coefficient = 0.000000E+00
 1140    FeS coefficient = 0.000000E+00
 1141    MgO coefficient = 0.000000E+00
 1142    Mg(OH)2 coefficient = 0.000000E+00
 1143    MgCO3 coefficient = 0.000000E+00
 1145    Stoichiometric coeff's for Rxn 4:
 1146    H2 coefficient = 0.000000E+00
 1147    H2O coefficient = 0.000000E+00
 1148    Fe coefficient = 0.000000E+00
 1149    Bio coefficient = 0.000000E+00
 1150    Fe(OH)2 coefficient = 0.000000E+00
 1151    FeS coefficient = 0.000000E+00
 1152    MgO coefficient = 0.000000E+00
 1153    Mg(OH)2 coefficient = 0.000000E+00
 1154    MgCO3 coefficient = 0.000000E+00
 1156    Stoichiometric coeff's for Rxn 5:
 1157    H2 coefficient = 0.000000E+00
 1158    H2O coefficient = 0.000000E+00
 1159    Fe coefficient = 0.000000E+00
 1160    Bio coefficient = 0.000000E+00
 1161    Fe(OH)2 coefficient = 0.000000E+00
 1162    FeS coefficient = 0.000000E+00
 1163    MgO coefficient = 0.000000E+00
 1164    Mg(OH)2 coefficient = 0.000000E+00
 1165    MgCO3 coefficient = 0.000000E+00
 1167    Stoichiometric coeff's for Rxn 6:
 1168    H2 coefficient = 0.000000E+00
 1169    H2O coefficient = 0.000000E+00
 1170    Fe coefficient = 0.000000E+00
 1171    Bio coefficient = 0.000000E+00
 1172    Fe(OH)2 coefficient = 0.000000E+00
 1173    FeS coefficient = 0.000000E+00
 1174    MgO coefficient = 0.000000E+00
 1175    Mg(OH)2 coefficient = 0.000000E+00
 1176    MgCO3 coefficient = 0.000000E+00
 1178    Stoichiometric coeff's for Rxn 7:
 1179    H2 coefficient = 0.000000E+00
 1180    H2O coefficient = 0.000000E+00
 1181    Fe coefficient = 0.000000E+00
 1182    Bio coefficient = 0.000000E+00
 1183    Fe(OH)2 coefficient = 0.000000E+00
 1184    FeS coefficient = 0.000000E+00
 1185    MgO coefficient = 0.000000E+00
 1186    Mg(OH)2 coefficient = 0.000000E+00
 1187    MgCO3 coefficient = 0.000000E+00
 1189    Wicking term (SATWICK) = 0.000000E+00
 1190    Humid rates to be smoothed? (LARXN) = T
 1191    Concentration rates to be smoothed? (LARXN2) = F
 1192    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194    Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1067    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068    Gas coefficient = 1.060400E+00
 1069    H2O coefficient = 1.879200E+00
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 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 6.797000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
```

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 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 25.63 sec = 0.00712 hr
 1774    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 21.87 sec = 0.00608 hr
 1628    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2450     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.64 ( 25.64 sec) ASCII
 2452     Time Step No. = 142 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.064671E-03 days
 2456     Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 ( 29.24 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.402002E-02 days
 2459     Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 ( 32.57 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.514852E+00 days
 2462     Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 ( 35.90 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 2.178362E+02 days
 2465     Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 ( 40.05 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 2.221380E+03 days
 2468     Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 ( 46.31 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 5.532745E+03 days
 2471     Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 ( 54.27 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 5.850050E+03 days
 2474     Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 ( 59.92 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 7.163773E+03 days
 2477     Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 ( 67.39 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 7.646916E+03 days
 2480     Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 8.451464E+03 days
 2483     Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 ( 78.35 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 8.495154E+03 days
 2486     Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 ( 83.72 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 8.550791E+03 days
 2489     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 ( 88.46 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 8.902588E+03 days
 2492     Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 ( 94.02 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 1.392947E+04 days
 2495     Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 ( 99.96 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 1.478125E+04 days
 2498     Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 ( 105.40 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 1.657464E+04 days
 2501     Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 ( 111.29 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 1.869145E+04 days
 2504     Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 ( 118.40 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.980385E+04 days
 2507     Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 ( 123.52 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 2.165433E+04 days
 2510     Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 ( 130.59 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 2.189594E+04 days
 2513     Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 ( 137.18 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 2.219046E+04 days
 2516     Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 2.441063E+04 days
 2519     Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 ( 148.71 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 2.696736E+04 days
 2522     Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 ( 155.49 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 3.055720E+04 days
 2525     Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 ( 162.17 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 3.382226E+04 days
 2528     Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 ( 167.54 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 3.652433E+04 days
 2531     Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 ( 175.35 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 3.652532E+04 days
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2534    Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 ( 178.07 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537    Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 ( 181.55 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540    Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 ( 184.02 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543    Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 ( 186.38 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546    Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 ( 190.97 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549    Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 ( 200.67 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552    Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 ( 206.52 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555    Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 ( 211.59 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558    Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 ( 216.92 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561    Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 ( 223.38 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564    Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567    Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 ( 234.29 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570    Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 ( 239.43 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573    Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 ( 247.20 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576    Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 ( 254.05 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579    Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 ( 260.44 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582    Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585    Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 ( 276.92 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588    Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 ( 283.71 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591    Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 ( 288.46 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594    Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 ( 295.72 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 ( 302.33 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 ( 310.69 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603    Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 ( 314.53 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606    Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 ( 319.36 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609    Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 ( 320.89 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612    Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 ( 324.49 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615    Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 ( 330.69 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618    Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 ( 338.82 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621    Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 ( 347.21 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624    Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 ( 353.95 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627    Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 ( 361.41 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630    Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 ( 371.96 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633    Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 ( 379.81 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636    Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 ( 387.79 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639    Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 ( 393.15 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642    Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 ( 401.25 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645    Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 ( 409.28 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
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2648     Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 ( 417.14 sec) Binary
2650     Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651     Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 ( 425.45 sec) Binary
2653     Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654     Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 ( 433.70 sec) Binary
2656     Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657     Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 ( 442.72 sec) Binary
2659     Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660     Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 ( 449.05 sec) Binary
2662     Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663     Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 ( 458.61 sec) Binary
2665     Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666     Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 ( 464.88 sec) Binary
2668     Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669     Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 ( 472.53 sec) Binary
2671     Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672     Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 ( 481.38 sec) Binary
2674     Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675     Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 ( 488.59 sec) Binary
2677     Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678     Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 ( 495.77 sec) Binary
2680     Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681     Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 ( 505.54 sec) Binary
2683     Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684     Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 ( 513.74 sec) Binary
2686     Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687     Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 ( 519.90 sec) Binary
2689     Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690     Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 ( 526.64 sec) Binary
2692     Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693     Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 ( 532.00 sec) Binary
2695     Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696     Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 ( 539.23 sec) Binary
2698     Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699     Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 ( 544.11 sec) Binary
2701     Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702     Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 ( 551.98 sec) Binary
2704     Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705     Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 ( 560.52 sec) Binary
2707     Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708     Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 ( 565.86 sec) Binary
2710     Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711     Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 ( 570.25 sec) Binary
2713     Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714     Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 ( 574.48 sec) Binary
2716     Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717     Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 ( 578.73 sec) Binary
2720     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
2304     Date: 05/18/06 Time: 10:36:19 CPU Time: 0 0: 0:21.89 ( 21.89 sec) ASCII
2306     Time Step No. = 142 Elapsed Time = 0.000000E+00 days
2307     Date: 05/18/06 Time: 10:36:19 CPU Time: 0 0: 0:21.89 ( 21.89 sec) Binary
2309     Time Step No. = 160 Elapsed Time = 1.064671E-03 days
2310     Date: 05/18/06 Time: 10:36:22 CPU Time: 0 0: 0:24.83 ( 24.83 sec) Binary
2312     Time Step No. = 180 Elapsed Time = 9.402002E-02 days
2313     Date: 05/18/06 Time: 10:36:25 CPU Time: 0 0: 0:27.37 ( 27.37 sec) Binary
2315     Time Step No. = 200 Elapsed Time = 5.514852E+00 days
2316     Date: 05/18/06 Time: 10:36:28 CPU Time: 0 0: 0:30.06 ( 30.06 sec) Binary
2318     Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2319     Date: 05/18/06 Time: 10:36:31 CPU Time: 0 0: 0:33.50 ( 33.50 sec) Binary
2321     Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2322     Date: 05/18/06 Time: 10:36:36 CPU Time: 0 0: 0:38.58 ( 38.58 sec) Binary
2324     Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2325     Date: 05/18/06 Time: 10:36:43 CPU Time: 0 0: 0:45.21 ( 45.21 sec) Binary
2327     Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2328     Date: 05/18/06 Time: 10:36:47 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
2330     Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2331     Date: 05/18/06 Time: 10:36:54 CPU Time: 0 0: 0:55.89 ( 55.89 sec) Binary
2333     Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2334     Date: 05/18/06 Time: 10:36:59 CPU Time: 0 0: 1: 1.23 ( 61.23 sec) Binary
2336     Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2337     Date: 05/18/06 Time: 10:37:03 CPU Time: 0 0: 1: 5.54 ( 65.54 sec) Binary
2339     Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2340     Date: 05/18/06 Time: 10:37:08 CPU Time: 0 0: 1:10.35 ( 70.35 sec) Binary
2342     Time Step No. = 380 Elapsed Time = 8.550791E+03 days
```

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2343  Date: 05/18/06 Time: 10:37:12 CPU Time: 0 0: 1:14.64 ( 74.64 sec) Binary
2345  Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2346  Date: 05/18/06 Time: 10:37:17 CPU Time: 0 0: 1:19.67 ( 79.67 sec) Binary
2348  Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2349  Date: 05/18/06 Time: 10:37:23 CPU Time: 0 0: 1:25.04 ( 85.04 sec) Binary
2351  Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2352  Date: 05/18/06 Time: 10:37:28 CPU Time: 0 0: 1:29.97 ( 89.97 sec) Binary
2354  Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2355  Date: 05/18/06 Time: 10:37:33 CPU Time: 0 0: 1:35.28 ( 95.28 sec) Binary
2357  Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2358  Date: 05/18/06 Time: 10:37:40 CPU Time: 0 0: 1:41.74 ( 101.74 sec) Binary
2360  Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2361  Date: 05/18/06 Time: 10:37:44 CPU Time: 0 0: 1:46.09 ( 106.09 sec) Binary
2363  Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2364  Date: 05/18/06 Time: 10:37:49 CPU Time: 0 0: 1:51.59 ( 111.59 sec) Binary
2366  Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2367  Date: 05/18/06 Time: 10:37:54 CPU Time: 0 0: 1:56.66 ( 116.66 sec) Binary
2369  Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2370  Date: 05/18/06 Time: 10:38:00 CPU Time: 0 0: 2: 2.11 ( 122.11 sec) Binary
2372  Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2373  Date: 05/18/06 Time: 10:38:04 CPU Time: 0 0: 2: 6.22 ( 126.22 sec) Binary
2375  Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2376  Date: 05/18/06 Time: 10:38:10 CPU Time: 0 0: 2:11.87 ( 131.87 sec) Binary
2378  Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2379  Date: 05/18/06 Time: 10:38:15 CPU Time: 0 0: 2:17.36 ( 137.36 sec) Binary
2381  Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2382  Date: 05/18/06 Time: 10:38:20 CPU Time: 0 0: 2:21.78 ( 141.78 sec) Binary
2384  Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2385  Date: 05/18/06 Time: 10:38:26 CPU Time: 0 0: 2:28.16 ( 148.16 sec) Binary
2387  Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2388  Date: 05/18/06 Time: 10:38:28 CPU Time: 0 0: 2:30.42 ( 150.42 sec) Binary
2390  Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2391  Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 2:33.29 ( 153.29 sec) Binary
2393  Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2394  Date: 05/18/06 Time: 10:38:33 CPU Time: 0 0: 2:35.34 ( 155.34 sec) Binary
2396  Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2397  Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 2:37.27 ( 157.27 sec) Binary
2399  Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2400  Date: 05/18/06 Time: 10:38:39 CPU Time: 0 0: 2:41.05 ( 161.05 sec) Binary
2402  Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2403  Date: 05/18/06 Time: 10:38:47 CPU Time: 0 0: 2:49.37 ( 169.37 sec) Binary
2405  Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2406  Date: 05/18/06 Time: 10:38:52 CPU Time: 0 0: 2:54.45 ( 174.45 sec) Binary
2408  Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2409  Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 2:58.82 ( 178.82 sec) Binary
2411  Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2412  Date: 05/18/06 Time: 10:39:01 CPU Time: 0 0: 3: 3.16 ( 183.16 sec) Binary
2414  Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2415  Date: 05/18/06 Time: 10:39:06 CPU Time: 0 0: 3: 8.40 ( 188.40 sec) Binary
2417  Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2418  Date: 05/18/06 Time: 10:39:10 CPU Time: 0 0: 3:12.26 ( 192.26 sec) Binary
2420  Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2421  Date: 05/18/06 Time: 10:39:15 CPU Time: 0 0: 3:17.31 ( 197.31 sec) Binary
2423  Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2424  Date: 05/18/06 Time: 10:39:20 CPU Time: 0 0: 3:21.48 ( 201.48 sec) Binary
2426  Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2427  Date: 05/18/06 Time: 10:39:26 CPU Time: 0 0: 3:27.84 ( 207.84 sec) Binary
2429  Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2430  Date: 05/18/06 Time: 10:39:32 CPU Time: 0 0: 3:33.47 ( 213.47 sec) Binary
2432  Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2433  Date: 05/18/06 Time: 10:39:37 CPU Time: 0 0: 3:38.69 ( 218.69 sec) Binary
2435  Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2436  Date: 05/18/06 Time: 10:39:43 CPU Time: 0 0: 3:44.87 ( 224.87 sec) Binary
2438  Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2439  Date: 05/18/06 Time: 10:39:51 CPU Time: 0 0: 3:52.66 ( 232.66 sec) Binary
2441  Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2442  Date: 05/18/06 Time: 10:39:57 CPU Time: 0 0: 3:58.45 ( 238.45 sec) Binary
2444  Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2445  Date: 05/18/06 Time: 10:40:00 CPU Time: 0 0: 4: 2.34 ( 242.34 sec) Binary
2447  Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2448  Date: 05/18/06 Time: 10:40:06 CPU Time: 0 0: 4: 8.35 ( 248.35 sec) Binary
2450  Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2451  Date: 05/18/06 Time: 10:40:12 CPU Time: 0 0: 4:13.78 ( 253.78 sec) Binary
2453  Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2454  Date: 05/18/06 Time: 10:40:19 CPU Time: 0 0: 4:20.58 ( 260.58 sec) Binary
2456  Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
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2457   Date: 05/18/06 Time: 10:40:22 CPU Time: 0 0: 4:23.71 ( 263.71 sec) Binary
2459   Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2460   Date: 05/18/06 Time: 10:40:26 CPU Time: 0 0: 4:27.63 ( 267.63 sec) Binary
2462   Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2463   Date: 05/18/06 Time: 10:40:27 CPU Time: 0 0: 4:28.89 ( 268.89 sec) Binary
2465   Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2466   Date: 05/18/06 Time: 10:40:30 CPU Time: 0 0: 4:31.83 ( 271.83 sec) Binary
2468   Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2469   Date: 05/18/06 Time: 10:40:35 CPU Time: 0 0: 4:36.89 ( 276.89 sec) Binary
2471   Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2472   Date: 05/18/06 Time: 10:40:42 CPU Time: 0 0: 4:43.93 ( 283.93 sec) Binary
2474   Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2475   Date: 05/18/06 Time: 10:40:49 CPU Time: 0 0: 4:51.15 ( 291.15 sec) Binary
2477   Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2478   Date: 05/18/06 Time: 10:40:55 CPU Time: 0 0: 4:56.59 ( 296.59 sec) Binary
2480   Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2481   Date: 05/18/06 Time: 10:41:01 CPU Time: 0 0: 5: 2.63 ( 302.63 sec) Binary
2483   Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2484   Date: 05/18/06 Time: 10:41:09 CPU Time: 0 0: 5:11.20 ( 311.20 sec) Binary
2486   Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2487   Date: 05/18/06 Time: 10:41:16 CPU Time: 0 0: 5:17.58 ( 317.58 sec) Binary
2489   Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2490   Date: 05/18/06 Time: 10:41:22 CPU Time: 0 0: 5:24.06 ( 324.06 sec) Binary
2492   Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2493   Date: 05/18/06 Time: 10:41:27 CPU Time: 0 0: 5:28.35 ( 328.35 sec) Binary
2495   Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2496   Date: 05/18/06 Time: 10:41:33 CPU Time: 0 0: 5:34.78 ( 334.78 sec) Binary
2498   Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2499   Date: 05/18/06 Time: 10:41:39 CPU Time: 0 0: 5:41.15 ( 341.15 sec) Binary
2501   Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2502   Date: 05/18/06 Time: 10:41:46 CPU Time: 0 0: 5:47.33 ( 347.33 sec) Binary
2504   Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2505   Date: 05/18/06 Time: 10:41:52 CPU Time: 0 0: 5:53.89 ( 353.89 sec) Binary
2507   Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2508   Date: 05/18/06 Time: 10:41:59 CPU Time: 0 0: 6: 0.40 ( 360.40 sec) Binary
2510   Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2511   Date: 05/18/06 Time: 10:42:06 CPU Time: 0 0: 6: 7.54 ( 367.54 sec) Binary
2513   Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2514   Date: 05/18/06 Time: 10:42:11 CPU Time: 0 0: 6:12.54 ( 372.54 sec) Binary
2516   Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2517   Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 6:20.22 ( 380.22 sec) Binary
2519   Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2520   Date: 05/18/06 Time: 10:42:24 CPU Time: 0 0: 6:25.62 ( 385.62 sec) Binary
2522   Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2523   Date: 05/18/06 Time: 10:42:31 CPU Time: 0 0: 6:32.22 ( 392.22 sec) Binary
2525   Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2526   Date: 05/18/06 Time: 10:42:38 CPU Time: 0 0: 6:39.73 ( 399.73 sec) Binary
2528   Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2529   Date: 05/18/06 Time: 10:42:44 CPU Time: 0 0: 6:45.66 ( 405.66 sec) Binary
2531   Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2532   Date: 05/18/06 Time: 10:42:50 CPU Time: 0 0: 6:51.40 ( 411.40 sec) Binary
2534   Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2535   Date: 05/18/06 Time: 10:42:58 CPU Time: 0 0: 6:59.62 ( 419.62 sec) Binary
2537   Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2538   Date: 05/18/06 Time: 10:43:05 CPU Time: 0 0: 7: 6.78 ( 426.78 sec) Binary
2540   Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2541   Date: 05/18/06 Time: 10:43:11 CPU Time: 0 0: 7:12.18 ( 432.18 sec) Binary
2543   Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2544   Date: 05/18/06 Time: 10:43:17 CPU Time: 0 0: 7:18.02 ( 438.02 sec) Binary
2546   Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2547   Date: 05/18/06 Time: 10:43:21 CPU Time: 0 0: 7:22.67 ( 442.67 sec) Binary
2549   Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2550   Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 7:28.92 ( 448.92 sec) Binary
2552   Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2553   Date: 05/18/06 Time: 10:43:32 CPU Time: 0 0: 7:33.01 ( 453.01 sec) Binary
2555   Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2556   Date: 05/18/06 Time: 10:43:38 CPU Time: 0 0: 7:39.62 ( 459.62 sec) Binary
2558   Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2559   Date: 05/18/06 Time: 10:43:45 CPU Time: 0 0: 7:46.73 ( 466.73 sec) Binary
2561   Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2562   Date: 05/18/06 Time: 10:43:50 CPU Time: 0 0: 7:51.20 ( 471.20 sec) Binary
2564   Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2565   Date: 05/18/06 Time: 10:43:54 CPU Time: 0 0: 7:54.83 ( 474.83 sec) Binary
2567   Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2568   Date: 05/18/06 Time: 10:43:57 CPU Time: 0 0: 7:58.36 ( 478.36 sec) Binary
2570   Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
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 2571    Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 1.92 ( 481.92 sec) Binary
 2574    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2736    CPU Time (this time step) = 0.15 sec = 0.00004 hr
 2737    CPU Time (total for run) = 579.52 sec = 0.16098 hr
 2738   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 2590    CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2591    CPU Time (total for run) = 482.57 sec = 0.13405 hr
 2592   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 3414    Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
 3416    Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3417    Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
 3422    ******************************************************************************
 3423    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424    * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
 3268    Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 2.57 ( 482.57 sec) ASCII
 3270    Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3271    Date: 05/18/06 Time: 10:44:01 CPU Time: 0 0: 8: 2.57 ( 482.57 sec) Binary
 3276    ******************************************************************************
 3277    * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3278    * Completed: 05/18/06 at 10:44:01 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3279    ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 419

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_VMS82_V500_ES47_TEST7_R011.OUT;1
```

BF2_QB0600_ES47_TEST7_V012_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
    2    ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3    ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
    2    ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3    ** Begun on: 05/18/06 at 10:37:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
   62    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   61    PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_TEST7_R012_QA0500.INP;1
   62    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   66    PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
************
************
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
   77     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.SUM;1
   77     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
   82     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.BIN;1
   82     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
   87     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R012]BF2_VMS82_V500_ES47_TEST7_R012.ROT;1
   87     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
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231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264      112 0 0 H2OFLOWIN Water inflow rate kg/s
265      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
195      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196      44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199      47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200      48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
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  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
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  828    Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  860    where IC's will be reset (NMATRESET) = 5
  861    Material type indexes of material regions
  862    where IC's will be reset (MATRESET) = 7 8 9 10 39
  864    Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
  842    where IC's will be reset (NMATRESET) = 4
  843    Material type indexes of material regions
  844    where IC's will be reset (MATRESET) = 7 8 9 10
  846    Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  869    instead of Input IC's for the Cavities
  870    [0=No, 1=Yes] (ICWASTE) = 1
  872    Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873    Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874    Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875    Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876    Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877    Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878    Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879    Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880    Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881    Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883    ---------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
  851    instead of Input IC's for the Waste
  852    [0=No, 1=Yes] (ICWASTE) = 1
  854    Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855    Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856    Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857    Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859    ---------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
  949    39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950    TOL = 1.0000E-02
  951    SOCEFFMIN = 1.0000E-03
  953    Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
  926    Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1086    Intrinsic reaction rate constants? (LINTRIN): F
 1088    Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1059    Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1096    MgO hydration reaction rate constants:
 1097    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100    Gas generation factors for biodegradation reaction:
 1101    Waste Area # 1
 1102    H2/H2S production (RXH2S) = 8.246000E-01
 1103    CO2 production (RXCO2) = 0.000000E+00
 1105    Gas generation factors for biodegradation reaction:
 1106    Waste Area # 2
 1107    H2/H2S production (RXH2S) = 8.246000E-01
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1108     CO2 production (RXCO2) = 0.000000E+00
1110     Saturation cutoff value (SOCMIN): 0.000000E+00
1112     Stoichiometric coeff's for Rxn 1:
1113     H2 coefficient = 1.249600E+00
1114     H2O coefficient = -1.500900E+00
1115     Fe coefficient = -1.000000E+00
1116     Bio coefficient = 0.000000E+00
1117     Fe(OH)2 coefficient = 0.000000E+00
1118     FeS coefficient = 0.000000E+00
1119     MgO coefficient = 0.000000E+00
1120     Mg(OH)2 coefficient = 0.000000E+00
1121     MgCO3 coefficient = 0.000000E+00
1123     Stoichiometric coeff's for Rxn 2:
1124     H2 coefficient = 8.246000E-01
1125     H2O coefficient = 0.000000E+00
1126     Fe coefficient = 0.000000E+00
1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
1145     Stoichiometric coeff's for Rxn 4:
1146     H2 coefficient = 0.000000E+00
1147     H2O coefficient = 0.000000E+00
1148     Fe coefficient = 0.000000E+00
1149     Bio coefficient = 0.000000E+00
1150     Fe(OH)2 coefficient = 0.000000E+00
1151     FeS coefficient = 0.000000E+00
1152     MgO coefficient = 0.000000E+00
1153     Mg(OH)2 coefficient = 0.000000E+00
1154     MgCO3 coefficient = 0.000000E+00
1156     Stoichiometric coeff's for Rxn 5:
1157     H2 coefficient = 0.000000E+00
1158     H2O coefficient = 0.000000E+00
1159     Fe coefficient = 0.000000E+00
1160     Bio coefficient = 0.000000E+00
1161     Fe(OH)2 coefficient = 0.000000E+00
1162     FeS coefficient = 0.000000E+00
1163     MgO coefficient = 0.000000E+00
1164     Mg(OH)2 coefficient = 0.000000E+00
1165     MgCO3 coefficient = 0.000000E+00
1167     Stoichiometric coeff's for Rxn 6:
1168     H2 coefficient = 0.000000E+00
1169     H2O coefficient = 0.000000E+00
1170     Fe coefficient = 0.000000E+00
1171     Bio coefficient = 0.000000E+00
1172     Fe(OH)2 coefficient = 0.000000E+00
1173     FeS coefficient = 0.000000E+00
1174     MgO coefficient = 0.000000E+00
1175     Mg(OH)2 coefficient = 0.000000E+00
1176     MgCO3 coefficient = 0.000000E+00
1178     Stoichiometric coeff's for Rxn 7:
1179     H2 coefficient = 0.000000E+00
1180     H2O coefficient = 0.000000E+00
1181     Fe coefficient = 0.000000E+00
1182     Bio coefficient = 0.000000E+00
1183     Fe(OH)2 coefficient = 0.000000E+00
1184     FeS coefficient = 0.000000E+00
1185     MgO coefficient = 0.000000E+00
```

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 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.249600E+00
 1069     H2O coefficient = 1.500900E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 8.246000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
**************************************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.20 sec = 0.00644 hr
 1774    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 20.29 sec = 0.00564 hr
 1628    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2450     Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2456     Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 ( 25.17 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 1.502175E+01 days
 2459     Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 ( 29.11 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 7.625276E+02 days
 2462     Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 ( 33.77 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 6.318104E+03 days
 2465     Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 ( 40.16 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653252E+04 days
 2468     Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 ( 48.80 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665724E+04 days
 2471     Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 ( 52.38 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667033E+04 days
 2474     Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.708680E+04 days
 2477     Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 ( 58.88 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 5.092008E+04 days
 2480     Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 ( 64.46 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 2.039729E+05 days
 2483     Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 ( 73.01 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 2.274452E+05 days
 2486     Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 ( 82.77 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.652467E+05 days
 2489     Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 ( 90.87 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652814E+05 days
 2492     Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 ( 97.34 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.655778E+05 days
 2495     Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 ( 103.81 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.666037E+05 days
 2498     Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 ( 111.39 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.666104E+05 days
 2501     Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 ( 113.43 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.671914E+05 days
 2504     Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 ( 117.61 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.687879E+05 days
 2507     Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 ( 124.83 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.778499E+05 days
 2510     Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 ( 134.54 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.789049E+05 days
 2513     Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 ( 141.59 sec) Binary
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2515    Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516    Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 ( 148.36 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519    Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 ( 150.77 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522    Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 ( 155.71 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 ( 162.48 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528    Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 ( 166.34 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 ( 171.71 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534    Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 ( 176.26 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537    Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 ( 184.67 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540    Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 ( 189.34 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543    Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 ( 197.23 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546    Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 ( 201.47 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549    Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 ( 205.54 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552    Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 ( 210.57 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555    Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 ( 217.88 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558    Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 ( 221.77 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561    Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 ( 225.65 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564    Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 ( 231.58 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567    Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 ( 237.85 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570    Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 ( 242.54 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573    Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 ( 249.44 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576    Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 ( 255.87 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579    Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 ( 262.56 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582    Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 ( 267.48 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585    Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 ( 275.26 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588    Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 ( 283.04 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591    Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 ( 288.52 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594    Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 ( 297.51 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597    Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 ( 307.24 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600    Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 ( 316.63 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603    Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606    Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 ( 331.57 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609    Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 ( 340.26 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612    Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 ( 347.86 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615    Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 ( 359.01 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 ( 365.77 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621    Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 ( 377.02 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624    Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627    Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 ( 393.92 sec) Binary
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 2629     Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
 2630     Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 ( 401.33 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
 2633     Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 ( 411.09 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
 2636     Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 ( 417.17 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
 2639     Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 ( 426.42 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
 2642     Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 ( 434.66 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
 2645     Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 ( 441.63 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
 2648     Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 ( 449.70 sec) Binary
 2650     Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
 2651     Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 ( 456.78 sec) Binary
 2653     Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
 2654     Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 ( 465.54 sec) Binary
 2656     Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
 2657     Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 ( 472.89 sec) Binary
 2659     Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
 2660     Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 ( 479.97 sec) Binary
 2662     Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
 2663     Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 ( 488.67 sec) Binary
 2665     Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
 2666     Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 ( 496.55 sec) Binary
 2668     Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
 2669     Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 ( 505.99 sec) Binary
 2671     Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
 2672     Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 ( 509.90 sec) Binary
 2674     Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
 2675     Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 ( 514.31 sec) Binary
 2677     Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
 2678     Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 ( 518.42 sec) Binary
 2680     Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
 2681     Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 ( 522.20 sec) Binary
 2684     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 2304     Date: 05/18/06 Time: 10:38:09 CPU Time: 0 0: 0:20.30 ( 20.30 sec) ASCII
 2306     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:38:09 CPU Time: 0 0: 0:20.31 ( 20.31 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2310     Date: 05/18/06 Time: 10:38:10 CPU Time: 0 0: 0:21.94 ( 21.94 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 1.502175E+01 days
 2313     Date: 05/18/06 Time: 10:38:14 CPU Time: 0 0: 0:25.24 ( 25.24 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 7.625276E+02 days
 2316     Date: 05/18/06 Time: 10:38:18 CPU Time: 0 0: 0:29.15 ( 29.15 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 6.318104E+03 days
 2319     Date: 05/18/06 Time: 10:38:23 CPU Time: 0 0: 0:34.66 ( 34.66 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 3.653252E+04 days
 2322     Date: 05/18/06 Time: 10:38:31 CPU Time: 0 0: 0:42.09 ( 42.09 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 3.665724E+04 days
 2325     Date: 05/18/06 Time: 10:38:34 CPU Time: 0 0: 0:45.18 ( 45.18 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 3.667033E+04 days
 2328     Date: 05/18/06 Time: 10:38:35 CPU Time: 0 0: 0:46.91 ( 46.91 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.708680E+04 days
 2331     Date: 05/18/06 Time: 10:38:39 CPU Time: 0 0: 0:50.55 ( 50.55 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 5.092008E+04 days
 2334     Date: 05/18/06 Time: 10:38:43 CPU Time: 0 0: 0:54.81 ( 54.81 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 2.039729E+05 days
 2337     Date: 05/18/06 Time: 10:38:50 CPU Time: 0 0: 1: 1.21 ( 61.21 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 2.274452E+05 days
 2340     Date: 05/18/06 Time: 10:38:57 CPU Time: 0 0: 1: 8.48 ( 68.48 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 3.652467E+05 days
 2343     Date: 05/18/06 Time: 10:39:03 CPU Time: 0 0: 1:14.56 ( 74.56 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 3.652814E+05 days
 2346     Date: 05/18/06 Time: 10:39:08 CPU Time: 0 0: 1:19.43 ( 79.43 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 3.655778E+05 days
 2349     Date: 05/18/06 Time: 10:39:13 CPU Time: 0 0: 1:24.49 ( 84.49 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 3.666037E+05 days
 2352     Date: 05/18/06 Time: 10:39:19 CPU Time: 0 0: 1:30.70 ( 90.70 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 3.666104E+05 days
 2355     Date: 05/18/06 Time: 10:39:21 CPU Time: 0 0: 1:32.37 ( 92.37 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 3.671914E+05 days
 2358     Date: 05/18/06 Time: 10:39:25 CPU Time: 0 0: 1:35.79 ( 95.79 sec) Binary
```

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2360    Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2361    Date: 05/18/06 Time: 10:39:30 CPU Time: 0 0: 1:41.73 ( 101.73 sec) Binary
2363    Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2364    Date: 05/18/06 Time: 10:39:38 CPU Time: 0 0: 1:49.71 ( 109.71 sec) Binary
2366    Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2367    Date: 05/18/06 Time: 10:39:45 CPU Time: 0 0: 1:56.06 ( 116.06 sec) Binary
2369    Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2370    Date: 05/18/06 Time: 10:39:51 CPU Time: 0 0: 2: 2.20 ( 122.20 sec) Binary
2372    Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2373    Date: 05/18/06 Time: 10:39:53 CPU Time: 0 0: 2: 4.38 ( 124.38 sec) Binary
2375    Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2376    Date: 05/18/06 Time: 10:39:58 CPU Time: 0 0: 2: 8.85 ( 128.85 sec) Binary
2378    Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2379    Date: 05/18/06 Time: 10:40:04 CPU Time: 0 0: 2:15.00 ( 135.00 sec) Binary
2381    Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2382    Date: 05/18/06 Time: 10:40:07 CPU Time: 0 0: 2:18.52 ( 138.52 sec) Binary
2384    Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2385    Date: 05/18/06 Time: 10:40:12 CPU Time: 0 0: 2:23.43 ( 143.43 sec) Binary
2387    Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2388    Date: 05/18/06 Time: 10:40:16 CPU Time: 0 0: 2:27.58 ( 147.58 sec) Binary
2390    Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2391    Date: 05/18/06 Time: 10:40:24 CPU Time: 0 0: 2:35.16 ( 155.16 sec) Binary
2393    Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2394    Date: 05/18/06 Time: 10:40:28 CPU Time: 0 0: 2:39.17 ( 159.17 sec) Binary
2396    Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2397    Date: 05/18/06 Time: 10:40:35 CPU Time: 0 0: 2:45.96 ( 165.96 sec) Binary
2399    Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2400    Date: 05/18/06 Time: 10:40:38 CPU Time: 0 0: 2:49.26 ( 169.26 sec) Binary
2402    Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2403    Date: 05/18/06 Time: 10:40:41 CPU Time: 0 0: 2:52.47 ( 172.47 sec) Binary
2405    Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2406    Date: 05/18/06 Time: 10:40:45 CPU Time: 0 0: 2:56.40 ( 176.40 sec) Binary
2408    Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2409    Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 3: 2.14 ( 182.14 sec) Binary
2411    Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2412    Date: 05/18/06 Time: 10:40:54 CPU Time: 0 0: 3: 5.38 ( 185.38 sec) Binary
2414    Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2415    Date: 05/18/06 Time: 10:40:58 CPU Time: 0 0: 3: 8.63 ( 188.63 sec) Binary
2417    Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2418    Date: 05/18/06 Time: 10:41:03 CPU Time: 0 0: 3:13.62 ( 193.62 sec) Binary
2420    Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2421    Date: 05/18/06 Time: 10:41:08 CPU Time: 0 0: 3:18.88 ( 198.88 sec) Binary
2423    Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2424    Date: 05/18/06 Time: 10:41:12 CPU Time: 0 0: 3:22.78 ( 202.78 sec) Binary
2426    Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2427    Date: 05/18/06 Time: 10:41:18 CPU Time: 0 0: 3:28.46 ( 208.46 sec) Binary
2429    Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2430    Date: 05/18/06 Time: 10:41:23 CPU Time: 0 0: 3:33.72 ( 213.72 sec) Binary
2432    Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2433    Date: 05/18/06 Time: 10:41:28 CPU Time: 0 0: 3:39.22 ( 219.22 sec) Binary
2435    Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2436    Date: 05/18/06 Time: 10:41:32 CPU Time: 0 0: 3:43.30 ( 223.30 sec) Binary
2438    Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2439    Date: 05/18/06 Time: 10:41:39 CPU Time: 0 0: 3:49.71 ( 229.71 sec) Binary
2441    Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2442    Date: 05/18/06 Time: 10:41:45 CPU Time: 0 0: 3:56.14 ( 236.14 sec) Binary
2444    Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2445    Date: 05/18/06 Time: 10:41:50 CPU Time: 0 0: 4: 0.69 ( 240.69 sec) Binary
2447    Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2448    Date: 05/18/06 Time: 10:41:57 CPU Time: 0 0: 4: 8.13 ( 248.13 sec) Binary
2450    Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2451    Date: 05/18/06 Time: 10:42:05 CPU Time: 0 0: 4:16.12 ( 256.12 sec) Binary
2453    Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2454    Date: 05/18/06 Time: 10:42:13 CPU Time: 0 0: 4:23.83 ( 263.83 sec) Binary
2456    Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2457    Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 4:29.95 ( 269.95 sec) Binary
2459    Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2460    Date: 05/18/06 Time: 10:42:25 CPU Time: 0 0: 4:36.14 ( 276.14 sec) Binary
2462    Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2463    Date: 05/18/06 Time: 10:42:33 CPU Time: 0 0: 4:43.32 ( 283.32 sec) Binary
2465    Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2466    Date: 05/18/06 Time: 10:42:39 CPU Time: 0 0: 4:49.38 ( 289.38 sec) Binary
2468    Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2469    Date: 05/18/06 Time: 10:42:47 CPU Time: 0 0: 4:57.90 ( 297.90 sec) Binary
2471    Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2472    Date: 05/18/06 Time: 10:42:52 CPU Time: 0 0: 5: 3.18 ( 303.18 sec) Binary
```

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 2474     Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
 2475     Date: 05/18/06 Time: 10:43:01 CPU Time: 0 0: 5:11.97 ( 311.97 sec) Binary
 2477     Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
 2478     Date: 05/18/06 Time: 10:43:07 CPU Time: 0 0: 5:18.18 ( 318.18 sec) Binary
 2480     Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
 2481     Date: 05/18/06 Time: 10:43:14 CPU Time: 0 0: 5:24.75 ( 324.75 sec) Binary
 2483     Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
 2484     Date: 05/18/06 Time: 10:43:20 CPU Time: 0 0: 5:30.49 ( 330.49 sec) Binary
 2486     Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
 2487     Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 5:38.69 ( 338.69 sec) Binary
 2489     Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
 2490     Date: 05/18/06 Time: 10:43:33 CPU Time: 0 0: 5:43.74 ( 343.74 sec) Binary
 2492     Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
 2493     Date: 05/18/06 Time: 10:43:41 CPU Time: 0 0: 5:51.47 ( 351.47 sec) Binary
 2495     Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
 2496     Date: 05/18/06 Time: 10:43:48 CPU Time: 0 0: 5:58.35 ( 358.35 sec) Binary
 2498     Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
 2499     Date: 05/18/06 Time: 10:43:54 CPU Time: 0 0: 6: 4.15 ( 364.15 sec) Binary
 2501     Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
 2502     Date: 05/18/06 Time: 10:44:00 CPU Time: 0 0: 6:10.71 ( 370.71 sec) Binary
 2504     Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
 2505     Date: 05/18/06 Time: 10:44:06 CPU Time: 0 0: 6:16.21 ( 376.21 sec) Binary
 2507     Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
 2508     Date: 05/18/06 Time: 10:44:13 CPU Time: 0 0: 6:23.00 ( 383.00 sec) Binary
 2510     Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
 2511     Date: 05/18/06 Time: 10:44:18 CPU Time: 0 0: 6:28.64 ( 388.64 sec) Binary
 2513     Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
 2514     Date: 05/18/06 Time: 10:44:24 CPU Time: 0 0: 6:34.13 ( 394.13 sec) Binary
 2516     Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
 2517     Date: 05/18/06 Time: 10:44:30 CPU Time: 0 0: 6:40.84 ( 400.84 sec) Binary
 2519     Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
 2520     Date: 05/18/06 Time: 10:44:37 CPU Time: 0 0: 6:47.34 ( 407.34 sec) Binary
 2522     Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
 2523     Date: 05/18/06 Time: 10:44:44 CPU Time: 0 0: 6:54.71 ( 414.71 sec) Binary
 2525     Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
 2526     Date: 05/18/06 Time: 10:44:47 CPU Time: 0 0: 6:57.71 ( 417.71 sec) Binary
 2528     Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
 2529     Date: 05/18/06 Time: 10:44:51 CPU Time: 0 0: 7: 1.02 ( 421.02 sec) Binary
 2531     Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
 2532     Date: 05/18/06 Time: 10:44:54 CPU Time: 0 0: 7: 4.26 ( 424.26 sec) Binary
 2534     Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
 2535     Date: 05/18/06 Time: 10:44:57 CPU Time: 0 0: 7: 7.30 ( 427.30 sec) Binary
 2538     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2700     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2701     CPU Time (total for run) = 525.21 sec = 0.14589 hr
 2702     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 2554     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 2555     CPU Time (total for run) = 429.70 sec = 0.11936 hr
 2556     ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 3378     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) ASCII
 3380     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3381     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) Binary
 3386     ************************************************************************
 3387     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3388     * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3389     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
 3232     Date: 05/18/06 Time: 10:44:59 CPU Time: 0 0: 7: 9.72 ( 429.72 sec) ASCII
 3234     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3235     Date: 05/18/06 Time: 10:44:59 CPU Time: 0 0: 7: 9.72 ( 429.72 sec) Binary
 3240     ************************************************************************
 3241     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3242     * Completed: 05/18/06 at 10:44:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3243     ************************************************************************
************

Number of difference sections found: 23
```

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Number of difference records found: 395

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_VMS82_V500_ES47_TEST7_R012.OUT;1
```

BF2_QB0600_ES47_TEST7_V013_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 09:59:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:40:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_TEST7_R013_QA0500.INP;1
   62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
   82     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.BIN;1
   82     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
   87     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R013]BF2_VMS82_V500_ES47_TEST7_R013.ROT;1
   87     ***************************************************************************
************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 195    43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
 196    44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
 197    45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
 198    46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
 199    47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
 200    48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 201    49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 202    50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 203    51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 204    52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
 205    53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
 206    54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
 207    55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
 208    56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
 209    57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
 210    58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 211    59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
 212    60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
 213    61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
 214    62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
 215    63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
 216    64 0 0 CONCST Salt concentration -- simple model kg/m^3
 217    65 0 0 PORSOLID Volume fraction of generated solids dimensionless
 218    66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 219    67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 220    68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 221    69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 222    70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 223    71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 224    72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 225    73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 226    74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 227    75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 228    76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 229    77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 230    78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 231    79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 232    80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 233    81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 234    82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 235    83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 236    84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 237    85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 238    86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 239    87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 240    88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 241    89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 242    90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 243    91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 244    92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 245    93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 246    94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 247    95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 248    96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 249    97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 250    98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 251    99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 252    100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 253    101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 254    102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 255    103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 256    104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 257    105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 258    106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 259    107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 260    108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 261    109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 262    110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
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  263      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264      112 0 0 H2OFLOWIN Water inflow rate kg/s
  265      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
  195      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196      44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199      47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200      48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216      64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217      65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218      66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224      72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225      73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226      74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227      75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228      76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229      77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230      78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231      79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232      80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233      81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234      82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235      83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236      84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237      85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238      86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239      87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240      88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241      89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242      90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243      91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244      92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245      93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246      94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247      95 0 0 H2OFLOWIN Water inflow rate kg/s
  248      96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249      97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
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  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ----------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
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 851     instead of Input IC's for the Waste
 852     [0=No, 1=Yes] (ICWASTE) = 1
 854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
 855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
 856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
 857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
 859     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
 950     TOL = 1.0000E-02
 951     SOCEFFMIN = 1.0000E-03
 953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1086     Intrinsic reaction rate constants? (LINTRIN): F
1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
1059     Reaction rate constants (RK):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
1096     MgO hydration reaction rate constants:
1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100     Gas generation factors for biodegradation reaction:
1101     Waste Area # 1
1102     H2/H2S production (RXH2S) = 1.428000E+00
1103     CO2 production (RXCO2) = 0.000000E+00
1105     Gas generation factors for biodegradation reaction:
1106     Waste Area # 2
1107     H2/H2S production (RXH2S) = 1.428000E+00
1108     CO2 production (RXCO2) = 0.000000E+00
1110     Saturation cutoff value (SOCMIN): 0.000000E+00
1112     Stoichiometric coeff's for Rxn 1:
1113     H2 coefficient = 1.280200E+00
1114     H2O coefficient = -1.439700E+00
1115     Fe coefficient = -1.000000E+00
1116     Bio coefficient = 0.000000E+00
1117     Fe(OH)2 coefficient = 0.000000E+00
1118     FeS coefficient = 0.000000E+00
1119     MgO coefficient = 0.000000E+00
1120     Mg(OH)2 coefficient = 0.000000E+00
1121     MgCO3 coefficient = 0.000000E+00
1123     Stoichiometric coeff's for Rxn 2:
1124     H2 coefficient = 1.428000E+00
1125     H2O coefficient = 0.000000E+00
1126     Fe coefficient = 0.000000E+00
1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
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 1145     Stoichiometric coeff's for Rxn 4:
 1146     H2 coefficient = 0.000000E+00
 1147     H2O coefficient = 0.000000E+00
 1148     Fe coefficient = 0.000000E+00
 1149     Bio coefficient = 0.000000E+00
 1150     Fe(OH)2 coefficient = 0.000000E+00
 1151     FeS coefficient = 0.000000E+00
 1152     MgO coefficient = 0.000000E+00
 1153     Mg(OH)2 coefficient = 0.000000E+00
 1154     MgCO3 coefficient = 0.000000E+00
 1156     Stoichiometric coeff's for Rxn 5:
 1157     H2 coefficient = 0.000000E+00
 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.280200E+00
 1069     H2O coefficient = 1.439700E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.428000E+00
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
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 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
*****************************************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 21.39 sec = 0.00594 hr
 1774    **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 19.52 sec = 0.00542 hr
 1628    **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2450     Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) ASCII
 2452     Time Step No. = 140 Elapsed Time = 0.000000E+00 days
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2453   Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) Binary
2455   Time Step No. = 160 Elapsed Time = 3.349069E-03 days
2456   Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 ( 24.99 sec) Binary
2458   Time Step No. = 180 Elapsed Time = 2.938345E-01 days
2459   Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 ( 28.33 sec) Binary
2461   Time Step No. = 200 Elapsed Time = 2.474097E+01 days
2462   Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 ( 31.73 sec) Binary
2464   Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2465   Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
2467   Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2468   Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 ( 42.87 sec) Binary
2470   Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2471   Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 ( 49.72 sec) Binary
2473   Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2474   Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 ( 55.02 sec) Binary
2476   Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2477   Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 ( 59.42 sec) Binary
2479   Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2480   Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 ( 61.18 sec) Binary
2482   Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2483   Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 ( 64.89 sec) Binary
2485   Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2486   Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 ( 69.99 sec) Binary
2488   Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2489   Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 ( 77.78 sec) Binary
2491   Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2492   Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 ( 86.16 sec) Binary
2494   Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2495   Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 ( 94.41 sec) Binary
2497   Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2498   Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 ( 97.00 sec) Binary
2500   Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2501   Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 ( 99.59 sec) Binary
2503   Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504   Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 ( 104.20 sec) Binary
2506   Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507   Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 ( 110.81 sec) Binary
2509   Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510   Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 ( 115.04 sec) Binary
2512   Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513   Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 ( 116.94 sec) Binary
2515   Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516   Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 ( 119.48 sec) Binary
2518   Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519   Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 ( 127.23 sec) Binary
2521   Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522   Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 ( 132.52 sec) Binary
2524   Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525   Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 ( 139.78 sec) Binary
2527   Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528   Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 ( 144.81 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531   Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 ( 148.79 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534   Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 ( 156.13 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537   Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 ( 161.67 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540   Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 ( 166.00 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543   Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 ( 171.74 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546   Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 ( 177.23 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549   Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 ( 182.89 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552   Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 ( 188.13 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555   Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 ( 193.93 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558   Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 ( 200.19 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561   Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 ( 206.00 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564   Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 ( 212.43 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 5.620786E+05 days
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 2567     Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 ( 220.80 sec) Binary
 2569     Time Step No. = 920 Elapsed Time = 6.268580E+05 days
 2570     Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 ( 230.44 sec) Binary
 2572     Time Step No. = 940 Elapsed Time = 6.704336E+05 days
 2573     Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 ( 236.93 sec) Binary
 2575     Time Step No. = 960 Elapsed Time = 9.857664E+05 days
 2576     Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 ( 245.76 sec) Binary
 2578     Time Step No. = 980 Elapsed Time = 1.073310E+06 days
 2579     Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 ( 253.00 sec) Binary
 2581     Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
 2582     Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 ( 261.02 sec) Binary
 2584     Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
 2585     Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 ( 269.33 sec) Binary
 2587     Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
 2588     Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 ( 277.72 sec) Binary
 2590     Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
 2591     Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 ( 282.82 sec) Binary
 2593     Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
 2594     Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 ( 290.27 sec) Binary
 2596     Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
 2597     Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 ( 299.13 sec) Binary
 2599     Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
 2600     Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 ( 307.35 sec) Binary
 2602     Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
 2603     Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 ( 316.62 sec) Binary
 2605     Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
 2606     Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 ( 323.09 sec) Binary
 2608     Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
 2609     Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 ( 333.16 sec) Binary
 2611     Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
 2612     Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 ( 340.34 sec) Binary
 2614     Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
 2615     Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 ( 346.69 sec) Binary
 2617     Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
 2618     Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 ( 354.42 sec) Binary
 2620     Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
 2621     Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 ( 360.32 sec) Binary
 2623     Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
 2624     Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 ( 370.03 sec) Binary
 2626     Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
 2627     Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 ( 377.28 sec) Binary
 2629     Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
 2630     Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 ( 385.64 sec) Binary
 2632     Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
 2633     Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 ( 392.86 sec) Binary
 2635     Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
 2636     Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 ( 397.40 sec) Binary
 2638     Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
 2639     Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 ( 405.00 sec) Binary
 2641     Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
 2642     Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 ( 410.47 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
 2645     Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 ( 417.02 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
 2648     Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 ( 424.18 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
 2651     Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 ( 427.89 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
 2654     Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 ( 435.19 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
 2657     Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2660     Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2663     Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 2304     Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 0:19.52 ( 19.52 sec) ASCII
 2306     Time Step No. = 140 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:40:51 CPU Time: 0 0: 0:19.53 ( 19.53 sec) Binary
 2309     Time Step No. = 160 Elapsed Time = 3.349069E-03 days
 2310     Date: 05/18/06 Time: 10:40:55 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
 2312     Time Step No. = 180 Elapsed Time = 2.938345E-01 days
 2313     Date: 05/18/06 Time: 10:40:58 CPU Time: 0 0: 0:25.73 ( 25.73 sec) Binary
 2315     Time Step No. = 200 Elapsed Time = 2.474097E+01 days
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2316    Date: 05/18/06 Time: 10:41:01 CPU Time: 0 0: 0:28.78 ( 28.78 sec) Binary
2318    Time Step No. = 220 Elapsed Time = 8.724359E+02 days
2319    Date: 05/18/06 Time: 10:41:05 CPU Time: 0 0: 0:33.46 ( 33.46 sec) Binary
2321    Time Step No. = 240 Elapsed Time = 1.061273E+04 days
2322    Date: 05/18/06 Time: 10:41:11 CPU Time: 0 0: 0:38.77 ( 38.77 sec) Binary
2324    Time Step No. = 260 Elapsed Time = 2.155677E+04 days
2325    Date: 05/18/06 Time: 10:41:17 CPU Time: 0 0: 0:44.91 ( 44.91 sec) Binary
2327    Time Step No. = 280 Elapsed Time = 3.652647E+04 days
2328    Date: 05/18/06 Time: 10:41:21 CPU Time: 0 0: 0:49.63 ( 49.63 sec) Binary
2330    Time Step No. = 300 Elapsed Time = 3.665348E+04 days
2331    Date: 05/18/06 Time: 10:41:25 CPU Time: 0 0: 0:53.58 ( 53.58 sec) Binary
2333    Time Step No. = 320 Elapsed Time = 3.665883E+04 days
2334    Date: 05/18/06 Time: 10:41:27 CPU Time: 0 0: 0:55.17 ( 55.17 sec) Binary
2336    Time Step No. = 340 Elapsed Time = 3.699010E+04 days
2337    Date: 05/18/06 Time: 10:41:30 CPU Time: 0 0: 0:58.51 ( 58.51 sec) Binary
2339    Time Step No. = 360 Elapsed Time = 6.033302E+04 days
2340    Date: 05/18/06 Time: 10:41:35 CPU Time: 0 0: 1: 3.08 ( 63.08 sec) Binary
2342    Time Step No. = 380 Elapsed Time = 1.684360E+05 days
2343    Date: 05/18/06 Time: 10:41:42 CPU Time: 0 0: 1:10.06 ( 70.06 sec) Binary
2345    Time Step No. = 400 Elapsed Time = 3.612153E+05 days
2346    Date: 05/18/06 Time: 10:41:49 CPU Time: 0 0: 1:17.57 ( 77.57 sec) Binary
2348    Time Step No. = 420 Elapsed Time = 3.652431E+05 days
2349    Date: 05/18/06 Time: 10:41:57 CPU Time: 0 0: 1:24.95 ( 84.95 sec) Binary
2351    Time Step No. = 440 Elapsed Time = 3.652431E+05 days
2352    Date: 05/18/06 Time: 10:41:59 CPU Time: 0 0: 1:27.29 ( 87.29 sec) Binary
2354    Time Step No. = 460 Elapsed Time = 3.652440E+05 days
2355    Date: 05/18/06 Time: 10:42:02 CPU Time: 0 0: 1:29.62 ( 89.62 sec) Binary
2357    Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2358    Date: 05/18/06 Time: 10:42:05 CPU Time: 0 0: 1:33.39 ( 93.39 sec) Binary
2360    Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2361    Date: 05/18/06 Time: 10:42:11 CPU Time: 0 0: 1:39.26 ( 99.26 sec) Binary
2363    Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2364    Date: 05/18/06 Time: 10:42:15 CPU Time: 0 0: 1:43.07 ( 103.07 sec) Binary
2366    Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2367    Date: 05/18/06 Time: 10:42:17 CPU Time: 0 0: 1:44.74 ( 104.74 sec) Binary
2369    Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2370    Date: 05/18/06 Time: 10:42:19 CPU Time: 0 0: 1:46.94 ( 106.94 sec) Binary
2372    Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2373    Date: 05/18/06 Time: 10:42:25 CPU Time: 0 0: 1:53.48 ( 113.48 sec) Binary
2375    Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2376    Date: 05/18/06 Time: 10:42:30 CPU Time: 0 0: 1:57.91 ( 117.91 sec) Binary
2378    Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2379    Date: 05/18/06 Time: 10:42:36 CPU Time: 0 0: 2: 4.00 ( 124.00 sec) Binary
2381    Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2382    Date: 05/18/06 Time: 10:42:41 CPU Time: 0 0: 2: 8.57 ( 128.57 sec) Binary
2384    Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2385    Date: 05/18/06 Time: 10:42:44 CPU Time: 0 0: 2:12.19 ( 132.19 sec) Binary
2387    Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2388    Date: 05/18/06 Time: 10:42:51 CPU Time: 0 0: 2:18.74 ( 138.74 sec) Binary
2390    Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2391    Date: 05/18/06 Time: 10:42:56 CPU Time: 0 0: 2:23.62 ( 143.62 sec) Binary
2393    Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2394    Date: 05/18/06 Time: 10:42:59 CPU Time: 0 0: 2:27.18 ( 147.18 sec) Binary
2396    Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2397    Date: 05/18/06 Time: 10:43:04 CPU Time: 0 0: 2:31.87 ( 151.87 sec) Binary
2399    Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2400    Date: 05/18/06 Time: 10:43:09 CPU Time: 0 0: 2:36.37 ( 156.37 sec) Binary
2402    Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2403    Date: 05/18/06 Time: 10:43:13 CPU Time: 0 0: 2:41.04 ( 161.04 sec) Binary
2405    Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2406    Date: 05/18/06 Time: 10:43:18 CPU Time: 0 0: 2:45.34 ( 165.34 sec) Binary
2408    Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2409    Date: 05/18/06 Time: 10:43:22 CPU Time: 0 0: 2:50.26 ( 170.26 sec) Binary
2411    Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2412    Date: 05/18/06 Time: 10:43:28 CPU Time: 0 0: 2:55.89 ( 175.89 sec) Binary
2414    Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2415    Date: 05/18/06 Time: 10:43:33 CPU Time: 0 0: 3: 1.14 ( 181.14 sec) Binary
2417    Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2418    Date: 05/18/06 Time: 10:43:39 CPU Time: 0 0: 3: 6.72 ( 186.72 sec) Binary
2420    Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2421    Date: 05/18/06 Time: 10:43:46 CPU Time: 0 0: 3:13.96 ( 193.96 sec) Binary
2423    Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2424    Date: 05/18/06 Time: 10:43:55 CPU Time: 0 0: 3:22.26 ( 202.26 sec) Binary
2426    Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2427    Date: 05/18/06 Time: 10:44:00 CPU Time: 0 0: 3:27.85 ( 207.85 sec) Binary
2429    Time Step No. = 960 Elapsed Time = 9.857664E+05 days
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 2430     Date: 05/18/06 Time: 10:44:07 CPU Time: 0 0: 3:35.00 ( 215.00 sec) Binary
 2432     Time Step No. = 980 Elapsed Time = 1.073310E+06 days
 2433     Date: 05/18/06 Time: 10:44:13 CPU Time: 0 0: 3:40.70 ( 220.70 sec) Binary
 2435     Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
 2436     Date: 05/18/06 Time: 10:44:20 CPU Time: 0 0: 3:47.10 ( 227.10 sec) Binary
 2438     Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
 2439     Date: 05/18/06 Time: 10:44:26 CPU Time: 0 0: 3:53.68 ( 233.68 sec) Binary
 2441     Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
 2442     Date: 05/18/06 Time: 10:44:33 CPU Time: 0 0: 4: 0.35 ( 240.35 sec) Binary
 2444     Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
 2445     Date: 05/18/06 Time: 10:44:37 CPU Time: 0 0: 4: 4.41 ( 244.41 sec) Binary
 2447     Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
 2448     Date: 05/18/06 Time: 10:44:43 CPU Time: 0 0: 4:10.77 ( 250.77 sec) Binary
 2450     Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
 2451     Date: 05/18/06 Time: 10:44:51 CPU Time: 0 0: 4:18.42 ( 258.42 sec) Binary
 2453     Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
 2454     Date: 05/18/06 Time: 10:44:58 CPU Time: 0 0: 4:25.51 ( 265.51 sec) Binary
 2456     Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
 2457     Date: 05/18/06 Time: 10:45:06 CPU Time: 0 0: 4:33.52 ( 273.52 sec) Binary
 2459     Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
 2460     Date: 05/18/06 Time: 10:45:12 CPU Time: 0 0: 4:39.04 ( 279.04 sec) Binary
 2462     Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
 2463     Date: 05/18/06 Time: 10:45:20 CPU Time: 0 0: 4:47.30 ( 287.30 sec) Binary
 2465     Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
 2466     Date: 05/18/06 Time: 10:45:26 CPU Time: 0 0: 4:53.37 ( 293.37 sec) Binary
 2468     Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
 2469     Date: 05/18/06 Time: 10:45:32 CPU Time: 0 0: 4:58.81 ( 298.81 sec) Binary
 2471     Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
 2472     Date: 05/18/06 Time: 10:45:38 CPU Time: 0 0: 5: 5.30 ( 305.30 sec) Binary
 2474     Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
 2475     Date: 05/18/06 Time: 10:45:43 CPU Time: 0 0: 5:10.06 ( 310.06 sec) Binary
 2477     Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
 2478     Date: 05/18/06 Time: 10:45:51 CPU Time: 0 0: 5:17.61 ( 317.61 sec) Binary
 2480     Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
 2481     Date: 05/18/06 Time: 10:45:56 CPU Time: 0 0: 5:23.26 ( 323.26 sec) Binary
 2483     Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
 2484     Date: 05/18/06 Time: 10:46:03 CPU Time: 0 0: 5:29.96 ( 329.96 sec) Binary
 2486     Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
 2487     Date: 05/18/06 Time: 10:46:09 CPU Time: 0 0: 5:35.97 ( 335.97 sec) Binary
 2489     Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
 2490     Date: 05/18/06 Time: 10:46:13 CPU Time: 0 0: 5:39.74 ( 339.74 sec) Binary
 2492     Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
 2493     Date: 05/18/06 Time: 10:46:19 CPU Time: 0 0: 5:46.07 ( 346.07 sec) Binary
 2495     Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
 2496     Date: 05/18/06 Time: 10:46:24 CPU Time: 0 0: 5:50.65 ( 350.65 sec) Binary
 2498     Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
 2499     Date: 05/18/06 Time: 10:46:29 CPU Time: 0 0: 5:56.20 ( 356.20 sec) Binary
 2501     Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
 2502     Date: 05/18/06 Time: 10:46:35 CPU Time: 0 0: 6: 2.22 ( 362.22 sec) Binary
 2504     Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
 2505     Date: 05/18/06 Time: 10:46:38 CPU Time: 0 0: 6: 5.36 ( 365.36 sec) Binary
 2507     Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
 2508     Date: 05/18/06 Time: 10:46:45 CPU Time: 0 0: 6:11.48 ( 371.48 sec) Binary
 2510     Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
 2511     Date: 05/18/06 Time: 10:46:51 CPU Time: 0 0: 6:17.82 ( 377.82 sec) Binary
 2513     Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2514     Date: 05/18/06 Time: 10:46:55 CPU Time: 0 0: 6:22.00 ( 382.00 sec) Binary
 2516     Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2517     Date: 05/18/06 Time: 10:46:59 CPU Time: 0 0: 6:25.75 ( 385.75 sec) Binary
 2520     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2682     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2683     CPU Time (total for run) = 454.65 sec = 0.12629 hr
 2684    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 2536     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 2537     CPU Time (total for run) = 387.84 sec = 0.10773 hr
 2538    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 3360     Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
 3362     Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
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 3363     Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
 3368     ******************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
 3214     Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 6:27.85 ( 387.85 sec) ASCII
 3216     Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
 3217     Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 6:27.85 ( 387.85 sec) Binary
 3222     ******************************************************************************
 3223     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3224     * Completed: 05/18/06 at 10:47:01 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3225     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 383

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_VMS82_V500_ES47_TEST7_R013.OUT;1
```

BF2_QB0600_ES47_TEST7_V014_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_TEST7_R014_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.SUM;1
   77     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R014]BF2_VMS82_V500_ES47_TEST7_R014.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
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247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264      112 0 0 H2OFLOWIN Water inflow rate kg/s
265      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  195      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196      44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199      47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200      48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216      64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217      65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218      66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224      72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225      73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226      74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227      75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228      76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229      77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230      78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231      79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232      80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
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  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     --------------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     --------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  828     Special material index numbers:
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
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  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 4.853000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 4.853000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.149300E+00
 1114     H2O coefficient = -1.701300E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
 1119     MgO coefficient = 0.000000E+00
 1120     Mg(OH)2 coefficient = 0.000000E+00
 1121     MgCO3 coefficient = 0.000000E+00
 1123     Stoichiometric coeff's for Rxn 2:
 1124     H2 coefficient = 4.853000E-01
 1125     H2O coefficient = 0.000000E+00
 1126     Fe coefficient = 0.000000E+00
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1127     Bio coefficient = -1.000000E+00
1128     Fe(OH)2 coefficient = 0.000000E+00
1129     FeS coefficient = 0.000000E+00
1130     MgO coefficient = 0.000000E+00
1131     Mg(OH)2 coefficient = 0.000000E+00
1132     MgCO3 coefficient = 0.000000E+00
1134     Stoichiometric coeff's for Rxn 3:
1135     H2 coefficient = 0.000000E+00
1136     H2O coefficient = 0.000000E+00
1137     Fe coefficient = 0.000000E+00
1138     Bio coefficient = 0.000000E+00
1139     Fe(OH)2 coefficient = 0.000000E+00
1140     FeS coefficient = 0.000000E+00
1141     MgO coefficient = 0.000000E+00
1142     Mg(OH)2 coefficient = 0.000000E+00
1143     MgCO3 coefficient = 0.000000E+00
1145     Stoichiometric coeff's for Rxn 4:
1146     H2 coefficient = 0.000000E+00
1147     H2O coefficient = 0.000000E+00
1148     Fe coefficient = 0.000000E+00
1149     Bio coefficient = 0.000000E+00
1150     Fe(OH)2 coefficient = 0.000000E+00
1151     FeS coefficient = 0.000000E+00
1152     MgO coefficient = 0.000000E+00
1153     Mg(OH)2 coefficient = 0.000000E+00
1154     MgCO3 coefficient = 0.000000E+00
1156     Stoichiometric coeff's for Rxn 5:
1157     H2 coefficient = 0.000000E+00
1158     H2O coefficient = 0.000000E+00
1159     Fe coefficient = 0.000000E+00
1160     Bio coefficient = 0.000000E+00
1161     Fe(OH)2 coefficient = 0.000000E+00
1162     FeS coefficient = 0.000000E+00
1163     MgO coefficient = 0.000000E+00
1164     Mg(OH)2 coefficient = 0.000000E+00
1165     MgCO3 coefficient = 0.000000E+00
1167     Stoichiometric coeff's for Rxn 6:
1168     H2 coefficient = 0.000000E+00
1169     H2O coefficient = 0.000000E+00
1170     Fe coefficient = 0.000000E+00
1171     Bio coefficient = 0.000000E+00
1172     Fe(OH)2 coefficient = 0.000000E+00
1173     FeS coefficient = 0.000000E+00
1174     MgO coefficient = 0.000000E+00
1175     Mg(OH)2 coefficient = 0.000000E+00
1176     MgCO3 coefficient = 0.000000E+00
1178     Stoichiometric coeff's for Rxn 7:
1179     H2 coefficient = 0.000000E+00
1180     H2O coefficient = 0.000000E+00
1181     Fe coefficient = 0.000000E+00
1182     Bio coefficient = 0.000000E+00
1183     Fe(OH)2 coefficient = 0.000000E+00
1184     FeS coefficient = 0.000000E+00
1185     MgO coefficient = 0.000000E+00
1186     Mg(OH)2 coefficient = 0.000000E+00
1187     MgCO3 coefficient = 0.000000E+00
1189     Wicking term (SATWICK) = 0.000000E+00
1190     Humid rates to be smoothed? (LARXN) = T
1191     Concentration rates to be smoothed? (LARXN2) = F
1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068     Gas coefficient = 1.149300E+00
1069     H2O coefficient = 1.701300E+00
1070     Fe coefficient = 1.000000E+00
1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073     Gas coefficient = 4.853000E-01
1074     H2O coefficient = 0.000000E+00
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 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
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 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 26.91 sec = 0.00747 hr
 1774    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 24.56 sec = 0.00682 hr
 1628    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 2450     Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) ASCII
 2452     Time Step No. = 143 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.888386E-01 days
 2456     Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 1.049209E+01 days
 2459     Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 ( 36.02 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 7.381917E+01 days
 2462     Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 ( 40.41 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 1.303821E+03 days
 2465     Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 ( 46.07 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.029855E+04 days
 2468     Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 ( 52.32 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 1.453486E+04 days
 2471     Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 ( 56.71 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.897038E+04 days
 2474     Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 ( 61.94 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.655441E+04 days
 2477     Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 ( 70.21 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665178E+04 days
 2480     Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 ( 74.75 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.666487E+04 days
 2483     Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 ( 76.82 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.745088E+04 days
 2486     Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 ( 80.62 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 6.127717E+04 days
 2489     Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 ( 87.44 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 6.603191E+04 days
 2492     Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 ( 93.46 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 7.703200E+04 days
 2495     Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 ( 98.69 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 1.085280E+05 days
 2498     Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 ( 110.38 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 1.090970E+05 days
 2501     Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 ( 118.25 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 1.344497E+05 days
 2504     Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 ( 129.56 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.371412E+05 days
 2507     Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 1.661861E+05 days
 2510     Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 ( 144.25 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 1.808157E+05 days
 2513     Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 ( 152.79 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 1.870527E+05 days
 2516     Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 ( 161.42 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 1.979271E+05 days
 2519     Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 ( 171.58 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 2.023248E+05 days
 2522     Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 ( 180.53 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 2.067971E+05 days
 2525     Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 ( 189.00 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 2.087652E+05 days
 2528     Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 ( 195.78 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 2.118872E+05 days
 2531     Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 2.157256E+05 days
 2534     Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 ( 209.88 sec) Binary
 2536     Time Step No. = 700 Elapsed Time = 2.321898E+05 days
 2537     Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 ( 221.79 sec) Binary
 2539     Time Step No. = 720 Elapsed Time = 2.494542E+05 days
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2540    Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 ( 228.88 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543    Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 ( 239.31 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546    Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 ( 248.15 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549    Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 ( 252.13 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552    Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 ( 257.51 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555    Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 ( 259.43 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558    Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 ( 261.79 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561    Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 ( 267.60 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564    Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 ( 275.32 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567    Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 ( 284.10 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570    Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 ( 291.54 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573    Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 ( 300.75 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576    Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 ( 307.97 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579    Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 ( 316.19 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582    Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 ( 322.28 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585    Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 ( 328.87 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588    Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 ( 335.32 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591    Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 ( 342.67 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594    Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 ( 350.75 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597    Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 ( 358.97 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600    Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 ( 366.17 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603    Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 ( 372.69 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606    Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 ( 377.80 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609    Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 ( 388.25 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612    Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 ( 394.36 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615    Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 ( 399.20 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618    Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621    Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 ( 409.61 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624    Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 ( 422.61 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627    Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 ( 428.26 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630    Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 ( 439.01 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633    Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 ( 443.61 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636    Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 ( 452.45 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 ( 462.07 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642    Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 ( 470.15 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645    Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 ( 479.43 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648    Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 ( 485.88 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651    Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 ( 492.12 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
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 2654     Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 ( 501.81 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
 2657     Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 ( 509.85 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
 2660     Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 ( 515.65 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
 2663     Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 ( 524.34 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
 2666     Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 ( 532.59 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
 2669     Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 ( 540.53 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
 2672     Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 ( 548.72 sec) Binary
 2674     Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
 2675     Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 ( 558.08 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
 2678     Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 ( 567.41 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
 2681     Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 ( 577.30 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
 2684     Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 ( 584.77 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
 2687     Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 ( 591.05 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
 2690     Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 ( 600.43 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
 2693     Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 ( 608.20 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
 2696     Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 ( 612.70 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
 2699     Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 ( 621.00 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
 2702     Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 ( 631.05 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
 2705     Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 ( 634.52 sec) Binary
 2708     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 2304     Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0: 0:24.58 ( 24.58 sec) ASCII
 2306     Time Step No. = 143 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:45:04 CPU Time: 0 0: 0:24.59 ( 24.59 sec) Binary
 2309     Time Step No. = 160 Elapsed Time = 1.888386E-01 days
 2310     Date: 05/18/06 Time: 10:45:09 CPU Time: 0 0: 0:29.06 ( 29.06 sec) Binary
 2312     Time Step No. = 180 Elapsed Time = 1.049209E+01 days
 2313     Date: 05/18/06 Time: 10:45:13 CPU Time: 0 0: 0:32.80 ( 32.80 sec) Binary
 2315     Time Step No. = 200 Elapsed Time = 7.381917E+01 days
 2316     Date: 05/18/06 Time: 10:45:17 CPU Time: 0 0: 0:36.75 ( 36.75 sec) Binary
 2318     Time Step No. = 220 Elapsed Time = 1.303821E+03 days
 2319     Date: 05/18/06 Time: 10:45:22 CPU Time: 0 0: 0:41.89 ( 41.89 sec) Binary
 2321     Time Step No. = 240 Elapsed Time = 1.029855E+04 days
 2322     Date: 05/18/06 Time: 10:45:27 CPU Time: 0 0: 0:47.11 ( 47.11 sec) Binary
 2324     Time Step No. = 260 Elapsed Time = 1.453486E+04 days
 2325     Date: 05/18/06 Time: 10:45:31 CPU Time: 0 0: 0:50.68 ( 50.68 sec) Binary
 2327     Time Step No. = 280 Elapsed Time = 1.897038E+04 days
 2328     Date: 05/18/06 Time: 10:45:35 CPU Time: 0 0: 0:54.92 ( 54.92 sec) Binary
 2330     Time Step No. = 300 Elapsed Time = 3.655441E+04 days
 2331     Date: 05/18/06 Time: 10:45:42 CPU Time: 0 0: 1: 1.77 ( 61.77 sec) Binary
 2333     Time Step No. = 320 Elapsed Time = 3.665178E+04 days
 2334     Date: 05/18/06 Time: 10:45:46 CPU Time: 0 0: 1: 5.86 ( 65.86 sec) Binary
 2336     Time Step No. = 340 Elapsed Time = 3.666487E+04 days
 2337     Date: 05/18/06 Time: 10:45:48 CPU Time: 0 0: 1: 7.75 ( 67.75 sec) Binary
 2339     Time Step No. = 360 Elapsed Time = 3.745088E+04 days
 2340     Date: 05/18/06 Time: 10:45:51 CPU Time: 0 0: 1:11.17 ( 71.17 sec) Binary
 2342     Time Step No. = 380 Elapsed Time = 6.127717E+04 days
 2343     Date: 05/18/06 Time: 10:45:57 CPU Time: 0 0: 1:17.05 ( 77.05 sec) Binary
 2345     Time Step No. = 400 Elapsed Time = 6.603191E+04 days
 2346     Date: 05/18/06 Time: 10:46:02 CPU Time: 0 0: 1:22.18 ( 82.18 sec) Binary
 2348     Time Step No. = 420 Elapsed Time = 7.703200E+04 days
 2349     Date: 05/18/06 Time: 10:46:07 CPU Time: 0 0: 1:26.72 ( 86.72 sec) Binary
 2351     Time Step No. = 440 Elapsed Time = 1.085280E+05 days
 2352     Date: 05/18/06 Time: 10:46:17 CPU Time: 0 0: 1:36.81 ( 96.81 sec) Binary
 2354     Time Step No. = 460 Elapsed Time = 1.090970E+05 days
 2355     Date: 05/18/06 Time: 10:46:24 CPU Time: 0 0: 1:43.65 ( 103.65 sec) Binary
 2357     Time Step No. = 480 Elapsed Time = 1.344497E+05 days
 2358     Date: 05/18/06 Time: 10:46:33 CPU Time: 0 0: 1:53.23 ( 113.23 sec) Binary
 2360     Time Step No. = 500 Elapsed Time = 1.371412E+05 days
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2361    Date: 05/18/06 Time: 10:46:37 CPU Time: 0 0: 1:57.05 ( 117.05 sec) Binary
2363    Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2364    Date: 05/18/06 Time: 10:46:46 CPU Time: 0 0: 2: 5.89 ( 125.89 sec) Binary
2366    Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2367    Date: 05/18/06 Time: 10:46:53 CPU Time: 0 0: 2:13.25 ( 133.25 sec) Binary
2369    Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2370    Date: 05/18/06 Time: 10:47:01 CPU Time: 0 0: 2:20.68 ( 140.68 sec) Binary
2372    Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2373    Date: 05/18/06 Time: 10:47:09 CPU Time: 0 0: 2:29.20 ( 149.20 sec) Binary
2375    Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2376    Date: 05/18/06 Time: 10:47:17 CPU Time: 0 0: 2:36.70 ( 156.70 sec) Binary
2378    Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2379    Date: 05/18/06 Time: 10:47:24 CPU Time: 0 0: 2:43.42 ( 163.42 sec) Binary
2381    Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2382    Date: 05/18/06 Time: 10:47:29 CPU Time: 0 0: 2:49.12 ( 169.12 sec) Binary
2384    Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2385    Date: 05/18/06 Time: 10:47:35 CPU Time: 0 0: 2:55.00 ( 175.00 sec) Binary
2387    Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2388    Date: 05/18/06 Time: 10:47:41 CPU Time: 0 0: 3: 1.03 ( 181.03 sec) Binary
2390    Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2391    Date: 05/18/06 Time: 10:47:51 CPU Time: 0 0: 3:10.92 ( 190.92 sec) Binary
2393    Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2394    Date: 05/18/06 Time: 10:47:57 CPU Time: 0 0: 3:16.77 ( 196.77 sec) Binary
2396    Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2397    Date: 05/18/06 Time: 10:48:06 CPU Time: 0 0: 3:25.41 ( 205.41 sec) Binary
2399    Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2400    Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0: 3:32.69 ( 212.69 sec) Binary
2402    Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2403    Date: 05/18/06 Time: 10:48:16 CPU Time: 0 0: 3:35.96 ( 215.96 sec) Binary
2405    Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2406    Date: 05/18/06 Time: 10:48:21 CPU Time: 0 0: 3:40.41 ( 220.41 sec) Binary
2408    Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2409    Date: 05/18/06 Time: 10:48:22 CPU Time: 0 0: 3:42.02 ( 222.02 sec) Binary
2411    Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2412    Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0: 3:43.96 ( 223.96 sec) Binary
2414    Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2415    Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0: 3:48.76 ( 228.76 sec) Binary
2417    Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2418    Date: 05/18/06 Time: 10:48:36 CPU Time: 0 0: 3:55.08 ( 235.08 sec) Binary
2420    Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2421    Date: 05/18/06 Time: 10:48:43 CPU Time: 0 0: 4: 2.26 ( 242.26 sec) Binary
2423    Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2424    Date: 05/18/06 Time: 10:48:49 CPU Time: 0 0: 4: 8.43 ( 248.43 sec) Binary
2426    Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2427    Date: 05/18/06 Time: 10:48:57 CPU Time: 0 0: 4:16.04 ( 256.04 sec) Binary
2429    Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2430    Date: 05/18/06 Time: 10:49:02 CPU Time: 0 0: 4:22.00 ( 262.00 sec) Binary
2432    Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2433    Date: 05/18/06 Time: 10:49:09 CPU Time: 0 0: 4:28.79 ( 268.79 sec) Binary
2435    Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2436    Date: 05/18/06 Time: 10:49:14 CPU Time: 0 0: 4:33.82 ( 273.82 sec) Binary
2438    Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2439    Date: 05/18/06 Time: 10:49:20 CPU Time: 0 0: 4:39.27 ( 279.27 sec) Binary
2441    Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2442    Date: 05/18/06 Time: 10:49:25 CPU Time: 0 0: 4:44.60 ( 284.60 sec) Binary
2444    Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2445    Date: 05/18/06 Time: 10:49:31 CPU Time: 0 0: 4:50.42 ( 290.42 sec) Binary
2447    Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2448    Date: 05/18/06 Time: 10:49:38 CPU Time: 0 0: 4:57.13 ( 297.13 sec) Binary
2450    Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2451    Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0: 5: 3.70 ( 303.70 sec) Binary
2453    Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2454    Date: 05/18/06 Time: 10:49:50 CPU Time: 0 0: 5: 9.15 ( 309.15 sec) Binary
2456    Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2457    Date: 05/18/06 Time: 10:49:55 CPU Time: 0 0: 5:14.35 ( 314.35 sec) Binary
2459    Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2460    Date: 05/18/06 Time: 10:49:59 CPU Time: 0 0: 5:18.45 ( 318.45 sec) Binary
2462    Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2463    Date: 05/18/06 Time: 10:50:08 CPU Time: 0 0: 5:26.80 ( 326.80 sec) Binary
2465    Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2466    Date: 05/18/06 Time: 10:50:13 CPU Time: 0 0: 5:31.83 ( 331.83 sec) Binary
2468    Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2469    Date: 05/18/06 Time: 10:50:17 CPU Time: 0 0: 5:35.82 ( 335.82 sec) Binary
2471    Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2472    Date: 05/18/06 Time: 10:50:20 CPU Time: 0 0: 5:39.60 ( 339.60 sec) Binary
2474    Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
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 2475     Date: 05/18/06 Time: 10:50:25 CPU Time: 0 0: 5:44.46 ( 344.46 sec) Binary
 2477     Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
 2478     Date: 05/18/06 Time: 10:50:36 CPU Time: 0 0: 5:55.27 ( 355.27 sec) Binary
 2480     Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
 2481     Date: 05/18/06 Time: 10:50:41 CPU Time: 0 0: 5:59.97 ( 359.97 sec) Binary
 2483     Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
 2484     Date: 05/18/06 Time: 10:50:50 CPU Time: 0 0: 6: 8.93 ( 368.93 sec) Binary
 2486     Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
 2487     Date: 05/18/06 Time: 10:50:54 CPU Time: 0 0: 6:12.77 ( 372.77 sec) Binary
 2489     Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
 2490     Date: 05/18/06 Time: 10:51:01 CPU Time: 0 0: 6:20.06 ( 380.06 sec) Binary
 2492     Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
 2493     Date: 05/18/06 Time: 10:51:09 CPU Time: 0 0: 6:28.12 ( 388.12 sec) Binary
 2495     Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
 2496     Date: 05/18/06 Time: 10:51:16 CPU Time: 0 0: 6:35.05 ( 395.05 sec) Binary
 2498     Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
 2499     Date: 05/18/06 Time: 10:51:24 CPU Time: 0 0: 6:43.51 ( 403.51 sec) Binary
 2501     Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
 2502     Date: 05/18/06 Time: 10:51:30 CPU Time: 0 0: 6:49.41 ( 409.41 sec) Binary
 2504     Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
 2505     Date: 05/18/06 Time: 10:51:36 CPU Time: 0 0: 6:55.12 ( 415.12 sec) Binary
 2507     Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
 2508     Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0: 7: 3.88 ( 423.88 sec) Binary
 2510     Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
 2511     Date: 05/18/06 Time: 10:51:52 CPU Time: 0 0: 7:11.29 ( 431.29 sec) Binary
 2513     Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
 2514     Date: 05/18/06 Time: 10:51:57 CPU Time: 0 0: 7:16.50 ( 436.50 sec) Binary
 2516     Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
 2517     Date: 05/18/06 Time: 10:52:05 CPU Time: 0 0: 7:24.18 ( 444.18 sec) Binary
 2519     Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
 2520     Date: 05/18/06 Time: 10:52:12 CPU Time: 0 0: 7:31.34 ( 451.34 sec) Binary
 2522     Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
 2523     Date: 05/18/06 Time: 10:52:19 CPU Time: 0 0: 7:38.22 ( 458.22 sec) Binary
 2525     Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
 2526     Date: 05/18/06 Time: 10:52:26 CPU Time: 0 0: 7:45.34 ( 465.34 sec) Binary
 2528     Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
 2529     Date: 05/18/06 Time: 10:52:35 CPU Time: 0 0: 7:53.48 ( 473.48 sec) Binary
 2531     Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
 2532     Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0: 8: 1.17 ( 481.17 sec) Binary
 2534     Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
 2535     Date: 05/18/06 Time: 10:52:50 CPU Time: 0 0: 8: 9.03 ( 489.03 sec) Binary
 2537     Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
 2538     Date: 05/18/06 Time: 10:52:56 CPU Time: 0 0: 8:14.97 ( 494.97 sec) Binary
 2540     Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
 2541     Date: 05/18/06 Time: 10:53:01 CPU Time: 0 0: 8:20.15 ( 500.15 sec) Binary
 2543     Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
 2544     Date: 05/18/06 Time: 10:53:09 CPU Time: 0 0: 8:28.01 ( 508.01 sec) Binary
 2546     Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
 2547     Date: 05/18/06 Time: 10:53:16 CPU Time: 0 0: 8:34.51 ( 514.51 sec) Binary
 2549     Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
 2550     Date: 05/18/06 Time: 10:53:19 CPU Time: 0 0: 8:38.16 ( 518.16 sec) Binary
 2552     Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
 2553     Date: 05/18/06 Time: 10:53:26 CPU Time: 0 0: 8:44.73 ( 524.73 sec) Binary
 2555     Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
 2556     Date: 05/18/06 Time: 10:53:34 CPU Time: 0 0: 8:52.82 ( 532.82 sec) Binary
 2558     Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
 2559     Date: 05/18/06 Time: 10:53:37 CPU Time: 0 0: 8:55.49 ( 535.49 sec) Binary
 2562     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 2724     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2725     CPU Time (total for run) = 638.67 sec = 0.17741 hr
 2726    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 2578     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 2579     CPU Time (total for run) = 538.65 sec = 0.14963 hr
 2580    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 3402     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
 3404     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3405     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
 3410    ****************************************************************************
```

```
 3411     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3412     * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3413     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
 3256     Date: 05/18/06 Time: 10:53:40 CPU Time: 0 0: 8:58.67 ( 538.67 sec) ASCII
 3258     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3259     Date: 05/18/06 Time: 10:53:40 CPU Time: 0 0: 8:58.67 ( 538.67 sec) Binary
 3264     ********************************************************************************
 3265     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3266     * Completed: 05/18/06 at 10:53:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3267     ********************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 411

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_VMS82_V500_ES47_TEST7_R014.OUT;1
```

BF2_QB0600_ES47_TEST7_V015_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:45:23 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_TEST7_R015_QA0500.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
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   82      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.BIN;1
   82      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
   87      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R015]BF2_VMS82_V500_ES47_TEST7_R015.ROT;1
   87      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
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97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
47 1 1 CONCFE Fe concentration -- simple model kg/m^3
48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
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  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     -------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     -------------------------------------------------------------------------------------
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
  828     Special material index numbers:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
```

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  872    Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873    Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874    Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875    Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876    Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877    Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878    Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879    Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880    Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881    Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883    ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
  851    instead of Input IC's for the Waste
  852    [0=No, 1=Yes] (ICWASTE) = 1
  854    Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855    Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856    Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857    Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859    ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
  949    39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950    TOL = 1.0000E-02
  951    SOCEFFMIN = 1.0000E-03
  953    Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
  926    Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1086    Intrinsic reaction rate constants? (LINTRIN): F
 1088    Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1059    Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1096    MgO hydration reaction rate constants:
 1097    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100    Gas generation factors for biodegradation reaction:
 1101    Waste Area # 1
 1102    H2/H2S production (RXH2S) = 8.216000E-02
 1103    CO2 production (RXCO2) = 0.000000E+00
 1105    Gas generation factors for biodegradation reaction:
 1106    Waste Area # 2
 1107    H2/H2S production (RXH2S) = 8.216000E-02
 1108    CO2 production (RXCO2) = 0.000000E+00
 1110    Saturation cutoff value (SOCMIN): 0.000000E+00
 1112    Stoichiometric coeff's for Rxn 1:
 1113    H2 coefficient = 1.222600E+00
 1114    H2O coefficient = -1.554900E+00
 1115    Fe coefficient = -1.000000E+00
 1116    Bio coefficient = 0.000000E+00
 1117    Fe(OH)2 coefficient = 0.000000E+00
 1118    FeS coefficient = 0.000000E+00
 1119    MgO coefficient = 0.000000E+00
 1120    Mg(OH)2 coefficient = 0.000000E+00
 1121    MgCO3 coefficient = 0.000000E+00
 1123    Stoichiometric coeff's for Rxn 2:
 1124    H2 coefficient = 8.216000E-02
 1125    H2O coefficient = 0.000000E+00
 1126    Fe coefficient = 0.000000E+00
 1127    Bio coefficient = -1.000000E+00
 1128    Fe(OH)2 coefficient = 0.000000E+00
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1129    FeS coefficient = 0.000000E+00
1130    MgO coefficient = 0.000000E+00
1131    Mg(OH)2 coefficient = 0.000000E+00
1132    MgCO3 coefficient = 0.000000E+00
1134    Stoichiometric coeff's for Rxn 3:
1135    H2 coefficient = 0.000000E+00
1136    H2O coefficient = 0.000000E+00
1137    Fe coefficient = 0.000000E+00
1138    Bio coefficient = 0.000000E+00
1139    Fe(OH)2 coefficient = 0.000000E+00
1140    FeS coefficient = 0.000000E+00
1141    MgO coefficient = 0.000000E+00
1142    Mg(OH)2 coefficient = 0.000000E+00
1143    MgCO3 coefficient = 0.000000E+00
1145    Stoichiometric coeff's for Rxn 4:
1146    H2 coefficient = 0.000000E+00
1147    H2O coefficient = 0.000000E+00
1148    Fe coefficient = 0.000000E+00
1149    Bio coefficient = 0.000000E+00
1150    Fe(OH)2 coefficient = 0.000000E+00
1151    FeS coefficient = 0.000000E+00
1152    MgO coefficient = 0.000000E+00
1153    Mg(OH)2 coefficient = 0.000000E+00
1154    MgCO3 coefficient = 0.000000E+00
1156    Stoichiometric coeff's for Rxn 5:
1157    H2 coefficient = 0.000000E+00
1158    H2O coefficient = 0.000000E+00
1159    Fe coefficient = 0.000000E+00
1160    Bio coefficient = 0.000000E+00
1161    Fe(OH)2 coefficient = 0.000000E+00
1162    FeS coefficient = 0.000000E+00
1163    MgO coefficient = 0.000000E+00
1164    Mg(OH)2 coefficient = 0.000000E+00
1165    MgCO3 coefficient = 0.000000E+00
1167    Stoichiometric coeff's for Rxn 6:
1168    H2 coefficient = 0.000000E+00
1169    H2O coefficient = 0.000000E+00
1170    Fe coefficient = 0.000000E+00
1171    Bio coefficient = 0.000000E+00
1172    Fe(OH)2 coefficient = 0.000000E+00
1173    FeS coefficient = 0.000000E+00
1174    MgO coefficient = 0.000000E+00
1175    Mg(OH)2 coefficient = 0.000000E+00
1176    MgCO3 coefficient = 0.000000E+00
1178    Stoichiometric coeff's for Rxn 7:
1179    H2 coefficient = 0.000000E+00
1180    H2O coefficient = 0.000000E+00
1181    Fe coefficient = 0.000000E+00
1182    Bio coefficient = 0.000000E+00
1183    Fe(OH)2 coefficient = 0.000000E+00
1184    FeS coefficient = 0.000000E+00
1185    MgO coefficient = 0.000000E+00
1186    Mg(OH)2 coefficient = 0.000000E+00
1187    MgCO3 coefficient = 0.000000E+00
1189    Wicking term (SATWICK) = 0.000000E+00
1190    Humid rates to be smoothed? (LARXN) = T
1191    Concentration rates to be smoothed? (LARXN2) = F
1192    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194    Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
1067    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068    Gas coefficient = 1.222600E+00
1069    H2O coefficient = 1.554900E+00
1070    Fe coefficient = 1.000000E+00
1072    Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073    Gas coefficient = 8.216000E-02
1074    H2O coefficient = 0.000000E+00
1075    Bio coefficient = 1.000000E+00
1077    Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1772     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773     CPU Time (total for run) = 36.30 sec = 0.01008 hr
 1774    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 1626     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1627     CPU Time (total for run) = 32.59 sec = 0.00905 hr
 1628    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 2450     Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) ASCII
 2452     Time Step No. = 210 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) Binary
 2455     Time Step No. = 220 Elapsed Time = 2.536995E-06 days
 2456     Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 ( 39.15 sec) Binary
 2458     Time Step No. = 240 Elapsed Time = 2.462139E-04 days
 2459     Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 ( 41.76 sec) Binary
 2461     Time Step No. = 260 Elapsed Time = 2.138181E-02 days
 2462     Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 ( 44.68 sec) Binary
 2464     Time Step No. = 280 Elapsed Time = 8.282803E-01 days
 2465     Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 ( 49.77 sec) Binary
 2467     Time Step No. = 300 Elapsed Time = 9.304805E+00 days
 2468     Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 ( 54.74 sec) Binary
 2470     Time Step No. = 320 Elapsed Time = 3.446185E+01 days
 2471     Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
 2473     Time Step No. = 340 Elapsed Time = 3.301301E+02 days
 2474     Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 ( 64.51 sec) Binary
 2476     Time Step No. = 360 Elapsed Time = 3.883799E+03 days
 2477     Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 ( 71.03 sec) Binary
 2479     Time Step No. = 380 Elapsed Time = 9.380975E+03 days
 2480     Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 ( 77.01 sec) Binary
 2482     Time Step No. = 400 Elapsed Time = 1.987397E+04 days
 2483     Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 ( 81.87 sec) Binary
 2485     Time Step No. = 420 Elapsed Time = 2.958099E+04 days
 2486     Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 ( 90.13 sec) Binary
 2488     Time Step No. = 440 Elapsed Time = 3.655662E+04 days
 2489     Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 ( 96.74 sec) Binary
 2491     Time Step No. = 460 Elapsed Time = 3.667440E+04 days
 2492     Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 ( 99.47 sec) Binary
 2494     Time Step No. = 480 Elapsed Time = 3.673678E+04 days
 2495     Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 ( 102.19 sec) Binary
 2497     Time Step No. = 500 Elapsed Time = 3.915452E+04 days
 2498     Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 ( 107.08 sec) Binary
 2500     Time Step No. = 520 Elapsed Time = 7.353667E+04 days
 2501     Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 ( 114.69 sec) Binary
 2503     Time Step No. = 540 Elapsed Time = 1.617796E+05 days
 2504     Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 ( 125.58 sec) Binary
 2506     Time Step No. = 560 Elapsed Time = 1.667678E+05 days
 2507     Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 ( 135.94 sec) Binary
 2509     Time Step No. = 580 Elapsed Time = 1.677068E+05 days
 2510     Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 ( 140.84 sec) Binary
 2512     Time Step No. = 600 Elapsed Time = 1.761057E+05 days
 2513     Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
 2515     Time Step No. = 620 Elapsed Time = 2.548561E+05 days
 2516     Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 ( 157.21 sec) Binary
 2518     Time Step No. = 640 Elapsed Time = 3.342697E+05 days
 2519     Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 ( 166.85 sec) Binary
 2521     Time Step No. = 660 Elapsed Time = 3.395756E+05 days
 2522     Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 ( 177.26 sec) Binary
 2524     Time Step No. = 680 Elapsed Time = 3.398686E+05 days
 2525     Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 ( 180.38 sec) Binary
 2527     Time Step No. = 700 Elapsed Time = 3.453184E+05 days
 2528     Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 ( 186.81 sec) Binary
 2530     Time Step No. = 720 Elapsed Time = 3.619564E+05 days
 2531     Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 ( 194.71 sec) Binary
 2533     Time Step No. = 740 Elapsed Time = 3.652437E+05 days
 2534     Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 ( 199.35 sec) Binary
 2536     Time Step No. = 760 Elapsed Time = 3.652836E+05 days
 2537     Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 ( 203.87 sec) Binary
 2539     Time Step No. = 780 Elapsed Time = 3.659700E+05 days
 2540     Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 ( 209.19 sec) Binary
 2542     Time Step No. = 800 Elapsed Time = 3.665230E+05 days
 2543     Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 ( 211.08 sec) Binary
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2545   Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546   Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 ( 212.81 sec) Binary
2548   Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549   Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 ( 217.33 sec) Binary
2551   Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552   Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 ( 222.32 sec) Binary
2554   Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555   Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 ( 232.50 sec) Binary
2557   Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558   Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
2560   Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561   Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 ( 246.20 sec) Binary
2563   Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564   Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 ( 251.92 sec) Binary
2566   Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567   Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 ( 260.97 sec) Binary
2569   Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570   Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 ( 265.42 sec) Binary
2572   Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573   Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 ( 271.41 sec) Binary
2575   Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576   Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 ( 275.07 sec) Binary
2578   Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579   Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 ( 283.30 sec) Binary
2581   Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582   Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 ( 290.00 sec) Binary
2584   Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585   Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 ( 294.52 sec) Binary
2587   Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588   Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 ( 301.30 sec) Binary
2590   Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591   Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 ( 306.50 sec) Binary
2593   Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594   Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 ( 312.30 sec) Binary
2596   Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597   Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 ( 317.24 sec) Binary
2599   Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600   Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 ( 322.04 sec) Binary
2602   Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603   Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 ( 330.27 sec) Binary
2605   Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606   Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
2608   Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609   Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 ( 340.05 sec) Binary
2611   Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612   Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 ( 352.78 sec) Binary
2614   Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615   Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 ( 357.45 sec) Binary
2617   Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618   Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 ( 362.12 sec) Binary
2620   Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621   Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 ( 370.51 sec) Binary
2623   Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624   Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 ( 378.90 sec) Binary
2626   Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627   Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 ( 384.43 sec) Binary
2629   Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630   Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 ( 388.69 sec) Binary
2632   Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633   Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 ( 396.19 sec) Binary
2635   Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636   Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 ( 406.82 sec) Binary
2638   Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639   Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 ( 411.69 sec) Binary
2641   Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642   Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 ( 421.26 sec) Binary
2644   Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645   Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 ( 428.51 sec) Binary
2647   Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648   Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 ( 435.72 sec) Binary
2650   Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651   Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 ( 444.30 sec) Binary
2653   Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654   Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 ( 456.54 sec) Binary
2656   Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657   Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 ( 461.28 sec) Binary
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 2659     Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
 2660     Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 ( 471.37 sec) Binary
 2662     Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
 2663     Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 ( 475.37 sec) Binary
 2665     Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
 2666     Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 ( 484.04 sec) Binary
 2668     Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
 2669     Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 ( 488.12 sec) Binary
 2671     Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
 2672     Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 ( 497.22 sec) Binary
 2674     Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
 2675     Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 ( 504.92 sec) Binary
 2677     Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
 2678     Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 ( 512.14 sec) Binary
 2680     Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
 2681     Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 ( 521.64 sec) Binary
 2683     Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
 2684     Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 ( 527.29 sec) Binary
 2686     Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
 2687     Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 ( 533.97 sec) Binary
 2689     Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
 2690     Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 ( 538.55 sec) Binary
 2692     Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
 2693     Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 ( 542.91 sec) Binary
 2695     Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
 2696     Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 ( 547.00 sec) Binary
 2698     Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
 2699     Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 ( 555.99 sec) Binary
 2701     Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
 2702     Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 ( 559.13 sec) Binary
 2704     Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
 2705     Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 ( 563.80 sec) Binary
 2707     Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
 2708     Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 ( 571.13 sec) Binary
 2710     Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
 2711     Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 ( 578.72 sec) Binary
 2713     Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
 2714     Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 ( 585.27 sec) Binary
 2716     Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
 2717     Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 ( 591.89 sec) Binary
 2719     Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
 2720     Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 ( 596.08 sec) Binary
 2722     Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
 2723     Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 ( 600.12 sec) Binary
 2725     Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
 2726     Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 ( 604.14 sec) Binary
 2728     Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
 2729     Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 ( 608.18 sec) Binary
 2732     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 2304     Date: 05/18/06 Time: 10:45:55 CPU Time: 0 0: 0:32.60 ( 32.60 sec) ASCII
 2306     Time Step No. = 210 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:45:55 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
 2309     Time Step No. = 220 Elapsed Time = 2.536995E-06 days
 2310     Date: 05/18/06 Time: 10:45:58 CPU Time: 0 0: 0:34.97 ( 34.97 sec) Binary
 2312     Time Step No. = 240 Elapsed Time = 2.462139E-04 days
 2313     Date: 05/18/06 Time: 10:46:00 CPU Time: 0 0: 0:37.17 ( 37.17 sec) Binary
 2315     Time Step No. = 260 Elapsed Time = 2.138181E-02 days
 2316     Date: 05/18/06 Time: 10:46:02 CPU Time: 0 0: 0:39.57 ( 39.57 sec) Binary
 2318     Time Step No. = 280 Elapsed Time = 8.282803E-01 days
 2319     Date: 05/18/06 Time: 10:46:06 CPU Time: 0 0: 0:43.56 ( 43.56 sec) Binary
 2321     Time Step No. = 300 Elapsed Time = 9.304805E+00 days
 2322     Date: 05/18/06 Time: 10:46:10 CPU Time: 0 0: 0:47.46 ( 47.46 sec) Binary
 2324     Time Step No. = 320 Elapsed Time = 3.446185E+01 days
 2325     Date: 05/18/06 Time: 10:46:14 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
 2327     Time Step No. = 340 Elapsed Time = 3.301301E+02 days
 2328     Date: 05/18/06 Time: 10:46:18 CPU Time: 0 0: 0:55.16 ( 55.16 sec) Binary
 2330     Time Step No. = 360 Elapsed Time = 3.883799E+03 days
 2331     Date: 05/18/06 Time: 10:46:23 CPU Time: 0 0: 1: 0.30 ( 60.30 sec) Binary
 2333     Time Step No. = 380 Elapsed Time = 9.380975E+03 days
 2334     Date: 05/18/06 Time: 10:46:28 CPU Time: 0 0: 1: 4.99 ( 64.99 sec) Binary
 2336     Time Step No. = 400 Elapsed Time = 1.987397E+04 days
 2337     Date: 05/18/06 Time: 10:46:32 CPU Time: 0 0: 1: 8.84 ( 68.84 sec) Binary
 2339     Time Step No. = 420 Elapsed Time = 2.958099E+04 days
 2340     Date: 05/18/06 Time: 10:46:39 CPU Time: 0 0: 1:15.54 ( 75.54 sec) Binary
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2342    Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2343    Date: 05/18/06 Time: 10:46:44 CPU Time: 0 0: 1:20.87 ( 80.87 sec) Binary
2345    Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2346    Date: 05/18/06 Time: 10:46:46 CPU Time: 0 0: 1:23.06 ( 83.06 sec) Binary
2348    Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2349    Date: 05/18/06 Time: 10:46:48 CPU Time: 0 0: 1:25.27 ( 85.27 sec) Binary
2351    Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2352    Date: 05/18/06 Time: 10:46:52 CPU Time: 0 0: 1:29.21 ( 89.21 sec) Binary
2354    Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2355    Date: 05/18/06 Time: 10:46:59 CPU Time: 0 0: 1:35.33 ( 95.33 sec) Binary
2357    Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2358    Date: 05/18/06 Time: 10:47:07 CPU Time: 0 0: 1:43.81 ( 103.81 sec) Binary
2360    Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2361    Date: 05/18/06 Time: 10:47:15 CPU Time: 0 0: 1:51.65 ( 111.65 sec) Binary
2363    Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2364    Date: 05/18/06 Time: 10:47:19 CPU Time: 0 0: 1:55.39 ( 115.39 sec) Binary
2366    Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2367    Date: 05/18/06 Time: 10:47:25 CPU Time: 0 0: 2: 1.22 ( 121.22 sec) Binary
2369    Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2370    Date: 05/18/06 Time: 10:47:32 CPU Time: 0 0: 2: 8.92 ( 128.92 sec) Binary
2372    Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2373    Date: 05/18/06 Time: 10:47:41 CPU Time: 0 0: 2:17.26 ( 137.26 sec) Binary
2375    Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2376    Date: 05/18/06 Time: 10:47:50 CPU Time: 0 0: 2:26.33 ( 146.33 sec) Binary
2378    Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2379    Date: 05/18/06 Time: 10:47:52 CPU Time: 0 0: 2:29.04 ( 149.04 sec) Binary
2381    Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2382    Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0: 2:34.65 ( 154.65 sec) Binary
2384    Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2385    Date: 05/18/06 Time: 10:48:05 CPU Time: 0 0: 2:41.52 ( 161.52 sec) Binary
2387    Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2388    Date: 05/18/06 Time: 10:48:09 CPU Time: 0 0: 2:45.59 ( 165.59 sec) Binary
2390    Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2391    Date: 05/18/06 Time: 10:48:13 CPU Time: 0 0: 2:49.51 ( 169.51 sec) Binary
2393    Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2394    Date: 05/18/06 Time: 10:48:18 CPU Time: 0 0: 2:54.14 ( 174.14 sec) Binary
2396    Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2397    Date: 05/18/06 Time: 10:48:19 CPU Time: 0 0: 2:55.67 ( 175.67 sec) Binary
2399    Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2400    Date: 05/18/06 Time: 10:48:21 CPU Time: 0 0: 2:57.09 ( 177.09 sec) Binary
2402    Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2403    Date: 05/18/06 Time: 10:48:24 CPU Time: 0 0: 3: 0.76 ( 180.76 sec) Binary
2405    Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2406    Date: 05/18/06 Time: 10:48:28 CPU Time: 0 0: 3: 4.79 ( 184.79 sec) Binary
2408    Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2409    Date: 05/18/06 Time: 10:48:37 CPU Time: 0 0: 3:13.09 ( 193.09 sec) Binary
2411    Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2412    Date: 05/18/06 Time: 10:48:41 CPU Time: 0 0: 3:17.91 ( 197.91 sec) Binary
2414    Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2415    Date: 05/18/06 Time: 10:48:48 CPU Time: 0 0: 3:24.22 ( 204.22 sec) Binary
2417    Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2418    Date: 05/18/06 Time: 10:48:52 CPU Time: 0 0: 3:28.84 ( 208.84 sec) Binary
2420    Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2421    Date: 05/18/06 Time: 10:49:00 CPU Time: 0 0: 3:36.13 ( 216.13 sec) Binary
2423    Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2424    Date: 05/18/06 Time: 10:49:03 CPU Time: 0 0: 3:39.74 ( 219.74 sec) Binary
2426    Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2427    Date: 05/18/06 Time: 10:49:08 CPU Time: 0 0: 3:44.59 ( 224.59 sec) Binary
2429    Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2430    Date: 05/18/06 Time: 10:49:11 CPU Time: 0 0: 3:47.56 ( 227.56 sec) Binary
2432    Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2433    Date: 05/18/06 Time: 10:49:18 CPU Time: 0 0: 3:54.22 ( 234.22 sec) Binary
2435    Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2436    Date: 05/18/06 Time: 10:49:23 CPU Time: 0 0: 3:59.66 ( 239.66 sec) Binary
2438    Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2439    Date: 05/18/06 Time: 10:49:27 CPU Time: 0 0: 4: 3.45 ( 243.45 sec) Binary
2441    Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2442    Date: 05/18/06 Time: 10:49:33 CPU Time: 0 0: 4: 9.30 ( 249.30 sec) Binary
2444    Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2445    Date: 05/18/06 Time: 10:49:37 CPU Time: 0 0: 4:13.77 ( 253.77 sec) Binary
2447    Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2448    Date: 05/18/06 Time: 10:49:42 CPU Time: 0 0: 4:18.60 ( 258.60 sec) Binary
2450    Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2451    Date: 05/18/06 Time: 10:49:46 CPU Time: 0 0: 4:22.56 ( 262.56 sec) Binary
2453    Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2454    Date: 05/18/06 Time: 10:49:50 CPU Time: 0 0: 4:26.47 ( 266.47 sec) Binary
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2456     Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2457     Date: 05/18/06 Time: 10:49:57 CPU Time: 0 0: 4:33.43 ( 273.43 sec) Binary
2459     Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2460     Date: 05/18/06 Time: 10:50:02 CPU Time: 0 0: 4:37.99 ( 277.99 sec) Binary
2462     Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2463     Date: 05/18/06 Time: 10:50:05 CPU Time: 0 0: 4:41.66 ( 281.66 sec) Binary
2465     Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2466     Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0: 4:52.04 ( 292.04 sec) Binary
2468     Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2469     Date: 05/18/06 Time: 10:50:20 CPU Time: 0 0: 4:55.87 ( 295.87 sec) Binary
2471     Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2472     Date: 05/18/06 Time: 10:50:23 CPU Time: 0 0: 4:59.70 ( 299.70 sec) Binary
2474     Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2475     Date: 05/18/06 Time: 10:50:30 CPU Time: 0 0: 5: 6.56 ( 306.56 sec) Binary
2477     Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2478     Date: 05/18/06 Time: 10:50:37 CPU Time: 0 0: 5:13.41 ( 313.41 sec) Binary
2480     Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2481     Date: 05/18/06 Time: 10:50:42 CPU Time: 0 0: 5:17.95 ( 317.95 sec) Binary
2483     Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2484     Date: 05/18/06 Time: 10:50:45 CPU Time: 0 0: 5:21.44 ( 321.44 sec) Binary
2486     Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2487     Date: 05/18/06 Time: 10:50:51 CPU Time: 0 0: 5:27.56 ( 327.56 sec) Binary
2489     Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2490     Date: 05/18/06 Time: 10:51:00 CPU Time: 0 0: 5:36.22 ( 336.22 sec) Binary
2492     Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2493     Date: 05/18/06 Time: 10:51:04 CPU Time: 0 0: 5:40.15 ( 340.15 sec) Binary
2495     Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2496     Date: 05/18/06 Time: 10:51:12 CPU Time: 0 0: 5:47.94 ( 347.94 sec) Binary
2498     Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2499     Date: 05/18/06 Time: 10:51:18 CPU Time: 0 0: 5:54.01 ( 354.01 sec) Binary
2501     Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2502     Date: 05/18/06 Time: 10:51:24 CPU Time: 0 0: 6: 0.25 ( 360.25 sec) Binary
2504     Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2505     Date: 05/18/06 Time: 10:51:32 CPU Time: 0 0: 6: 7.69 ( 367.69 sec) Binary
2507     Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2508     Date: 05/18/06 Time: 10:51:42 CPU Time: 0 0: 6:18.30 ( 378.30 sec) Binary
2510     Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2511     Date: 05/18/06 Time: 10:51:46 CPU Time: 0 0: 6:22.40 ( 382.40 sec) Binary
2513     Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2514     Date: 05/18/06 Time: 10:51:55 CPU Time: 0 0: 6:31.16 ( 391.16 sec) Binary
2516     Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2517     Date: 05/18/06 Time: 10:51:59 CPU Time: 0 0: 6:34.63 ( 394.63 sec) Binary
2519     Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2520     Date: 05/18/06 Time: 10:52:06 CPU Time: 0 0: 6:42.15 ( 402.15 sec) Binary
2522     Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2523     Date: 05/18/06 Time: 10:52:10 CPU Time: 0 0: 6:45.70 ( 405.70 sec) Binary
2525     Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2526     Date: 05/18/06 Time: 10:52:17 CPU Time: 0 0: 6:53.43 ( 413.43 sec) Binary
2528     Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2529     Date: 05/18/06 Time: 10:52:24 CPU Time: 0 0: 6:59.98 ( 419.98 sec) Binary
2531     Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2532     Date: 05/18/06 Time: 10:52:30 CPU Time: 0 0: 7: 6.08 ( 426.08 sec) Binary
2534     Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2535     Date: 05/18/06 Time: 10:52:38 CPU Time: 0 0: 7:14.05 ( 434.05 sec) Binary
2537     Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2538     Date: 05/18/06 Time: 10:52:43 CPU Time: 0 0: 7:18.75 ( 438.75 sec) Binary
2540     Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2541     Date: 05/18/06 Time: 10:52:48 CPU Time: 0 0: 7:24.53 ( 444.53 sec) Binary
2543     Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2544     Date: 05/18/06 Time: 10:52:52 CPU Time: 0 0: 7:28.53 ( 448.53 sec) Binary
2546     Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2547     Date: 05/18/06 Time: 10:52:56 CPU Time: 0 0: 7:32.37 ( 452.37 sec) Binary
2549     Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2550     Date: 05/18/06 Time: 10:53:00 CPU Time: 0 0: 7:35.94 ( 455.94 sec) Binary
2552     Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2553     Date: 05/18/06 Time: 10:53:08 CPU Time: 0 0: 7:43.79 ( 463.79 sec) Binary
2555     Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2556     Date: 05/18/06 Time: 10:53:11 CPU Time: 0 0: 7:46.58 ( 466.58 sec) Binary
2558     Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2559     Date: 05/18/06 Time: 10:53:15 CPU Time: 0 0: 7:50.71 ( 470.71 sec) Binary
2561     Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2562     Date: 05/18/06 Time: 10:53:21 CPU Time: 0 0: 7:57.14 ( 477.14 sec) Binary
2564     Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2565     Date: 05/18/06 Time: 10:53:28 CPU Time: 0 0: 8: 3.76 ( 483.76 sec) Binary
2567     Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2568     Date: 05/18/06 Time: 10:53:33 CPU Time: 0 0: 8: 9.47 ( 489.47 sec) Binary
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 2570     Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
 2571     Date: 05/18/06 Time: 10:53:39 CPU Time: 0 0: 8:14.94 ( 494.94 sec) Binary
 2573     Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
 2574     Date: 05/18/06 Time: 10:53:42 CPU Time: 0 0: 8:18.33 ( 498.33 sec) Binary
 2576     Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
 2577     Date: 05/18/06 Time: 10:53:46 CPU Time: 0 0: 8:21.51 ( 501.51 sec) Binary
 2579     Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
 2580     Date: 05/18/06 Time: 10:53:49 CPU Time: 0 0: 8:24.70 ( 504.70 sec) Binary
 2582     Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
 2583     Date: 05/18/06 Time: 10:53:52 CPU Time: 0 0: 8:27.92 ( 507.92 sec) Binary
 2586     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 2748     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2749     CPU Time (total for run) = 608.99 sec = 0.16916 hr
 2750     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 2602     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 2603     CPU Time (total for run) = 508.58 sec = 0.14127 hr
 2604     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 3426     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
 3428     Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
 3429     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
 3434     ******************************************************************************
 3435     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3436     * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3437     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
 3280     Date: 05/18/06 Time: 10:53:53 CPU Time: 0 0: 8:28.60 ( 508.60 sec) ASCII
 3282     Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
 3283     Date: 05/18/06 Time: 10:53:53 CPU Time: 0 0: 8:28.61 ( 508.61 sec) Binary
 3288     ******************************************************************************
 3289     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3290     * Completed: 05/18/06 at 10:53:53 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3291     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 427

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_VMS82_V500_ES47_TEST7_R015.OUT;1
```

BF2_QB0600_ES47_TEST7_V016_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:47:24 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_TEST7_R016_QA0500.INP;1
   62     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   66      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   72      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R016]BF2_VMS82_V500_ES47_TEST7_R016.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
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222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
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  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ----------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
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  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
  828     Special material index numbers:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------------
---------------------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1059     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
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1096    MgO hydration reaction rate constants:
1097    Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
1098    Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
1100    Gas generation factors for biodegradation reaction:
1101    Waste Area # 1
1102    H2/H2S production (RXH2S) = 1.429000E-01
1103    CO2 production (RXCO2) = 0.000000E+00
1105    Gas generation factors for biodegradation reaction:
1106    Waste Area # 2
1107    H2/H2S production (RXH2S) = 1.429000E-01
1108    CO2 production (RXCO2) = 0.000000E+00
1110    Saturation cutoff value (SOCMIN): 0.000000E+00
1112    Stoichiometric coeff's for Rxn 1:
1113    H2 coefficient = 1.132700E+00
1114    H2O coefficient = -1.734600E+00
1115    Fe coefficient = -1.000000E+00
1116    Bio coefficient = 0.000000E+00
1117    Fe(OH)2 coefficient = 0.000000E+00
1118    FeS coefficient = 0.000000E+00
1119    MgO coefficient = 0.000000E+00
1120    Mg(OH)2 coefficient = 0.000000E+00
1121    MgCO3 coefficient = 0.000000E+00
1123    Stoichiometric coeff's for Rxn 2:
1124    H2 coefficient = 1.429000E-01
1125    H2O coefficient = 0.000000E+00
1126    Fe coefficient = 0.000000E+00
1127    Bio coefficient = -1.000000E+00
1128    Fe(OH)2 coefficient = 0.000000E+00
1129    FeS coefficient = 0.000000E+00
1130    MgO coefficient = 0.000000E+00
1131    Mg(OH)2 coefficient = 0.000000E+00
1132    MgCO3 coefficient = 0.000000E+00
1134    Stoichiometric coeff's for Rxn 3:
1135    H2 coefficient = 0.000000E+00
1136    H2O coefficient = 0.000000E+00
1137    Fe coefficient = 0.000000E+00
1138    Bio coefficient = 0.000000E+00
1139    Fe(OH)2 coefficient = 0.000000E+00
1140    FeS coefficient = 0.000000E+00
1141    MgO coefficient = 0.000000E+00
1142    Mg(OH)2 coefficient = 0.000000E+00
1143    MgCO3 coefficient = 0.000000E+00
1145    Stoichiometric coeff's for Rxn 4:
1146    H2 coefficient = 0.000000E+00
1147    H2O coefficient = 0.000000E+00
1148    Fe coefficient = 0.000000E+00
1149    Bio coefficient = 0.000000E+00
1150    Fe(OH)2 coefficient = 0.000000E+00
1151    FeS coefficient = 0.000000E+00
1152    MgO coefficient = 0.000000E+00
1153    Mg(OH)2 coefficient = 0.000000E+00
1154    MgCO3 coefficient = 0.000000E+00
1156    Stoichiometric coeff's for Rxn 5:
1157    H2 coefficient = 0.000000E+00
1158    H2O coefficient = 0.000000E+00
1159    Fe coefficient = 0.000000E+00
1160    Bio coefficient = 0.000000E+00
1161    Fe(OH)2 coefficient = 0.000000E+00
1162    FeS coefficient = 0.000000E+00
1163    MgO coefficient = 0.000000E+00
1164    Mg(OH)2 coefficient = 0.000000E+00
1165    MgCO3 coefficient = 0.000000E+00
1167    Stoichiometric coeff's for Rxn 6:
1168    H2 coefficient = 0.000000E+00
1169    H2O coefficient = 0.000000E+00
1170    Fe coefficient = 0.000000E+00
1171    Bio coefficient = 0.000000E+00
1172    Fe(OH)2 coefficient = 0.000000E+00
1173    FeS coefficient = 0.000000E+00
1174    MgO coefficient = 0.000000E+00
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 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.132700E+00
 1069     H2O coefficient = 1.734600E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 1.429000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 21.00 sec = 0.00583 hr
 1774    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 1626     CPU Time (this time step) = 0.16 sec = 0.00004 hr
 1627     CPU Time (total for run) = 17.81 sec = 0.00495 hr
 1628    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2450     Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2456     Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 ( 23.84 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2459     Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 ( 27.68 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2462     Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 ( 32.84 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2465     Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2468     Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 ( 44.91 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2471     Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 ( 49.40 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2474     Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2477     Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 ( 55.38 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2480     Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 ( 62.06 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2483     Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 ( 71.39 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2486     Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 ( 76.37 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2489     Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.125125E+05 days
 2492     Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 ( 92.97 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.133195E+05 days
 2495     Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 ( 97.96 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.135730E+05 days
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2498    Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 ( 103.65 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501    Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 ( 109.65 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504    Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 ( 116.91 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507    Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 ( 125.66 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510    Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 ( 130.65 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513    Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 ( 135.39 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516    Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 ( 141.13 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519    Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 ( 152.36 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522    Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 ( 154.95 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2525    Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 ( 157.54 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528    Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 ( 160.20 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531    Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 ( 164.42 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534    Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 ( 169.86 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537    Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 ( 175.92 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540    Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 ( 178.18 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543    Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 ( 182.35 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546    Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 ( 188.39 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549    Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 ( 194.51 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552    Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555    Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 ( 210.06 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558    Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 ( 214.82 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561    Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 ( 224.66 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564    Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 ( 233.47 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567    Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 ( 242.08 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570    Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 ( 249.73 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573    Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576    Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 ( 267.18 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579    Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 ( 276.04 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582    Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585    Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 ( 292.52 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588    Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 ( 299.94 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591    Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 ( 311.16 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594    Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 ( 317.74 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597    Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 ( 325.01 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600    Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 ( 333.82 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603    Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 ( 341.72 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 ( 350.60 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609    Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 ( 358.80 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
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 2612     Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 ( 367.41 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
 2615     Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 ( 375.34 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
 2618     Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 ( 382.23 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
 2621     Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 ( 388.91 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
 2624     Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 ( 397.21 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
 2627     Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 ( 403.28 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
 2630     Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 ( 411.12 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
 2633     Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 ( 418.83 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
 2636     Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 ( 423.01 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
 2639     Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 2304     Date: 05/18/06 Time: 10:47:42 CPU Time: 0 0: 0:17.83 ( 17.83 sec) ASCII
 2306     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:47:42 CPU Time: 0 0: 0:17.83 ( 17.83 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2310     Date: 05/18/06 Time: 10:47:45 CPU Time: 0 0: 0:20.18 ( 20.18 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2313     Date: 05/18/06 Time: 10:47:48 CPU Time: 0 0: 0:23.39 ( 23.39 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2316     Date: 05/18/06 Time: 10:47:52 CPU Time: 0 0: 0:27.73 ( 27.73 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2319     Date: 05/18/06 Time: 10:47:58 CPU Time: 0 0: 0:32.89 ( 32.89 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2322     Date: 05/18/06 Time: 10:48:02 CPU Time: 0 0: 0:37.83 ( 37.83 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2325     Date: 05/18/06 Time: 10:48:06 CPU Time: 0 0: 0:41.54 ( 41.54 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2328     Date: 05/18/06 Time: 10:48:08 CPU Time: 0 0: 0:43.24 ( 43.24 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2331     Date: 05/18/06 Time: 10:48:11 CPU Time: 0 0: 0:46.54 ( 46.54 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2334     Date: 05/18/06 Time: 10:48:17 CPU Time: 0 0: 0:52.13 ( 52.13 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2337     Date: 05/18/06 Time: 10:48:25 CPU Time: 0 0: 0:59.99 ( 59.99 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2340     Date: 05/18/06 Time: 10:48:29 CPU Time: 0 0: 1: 4.18 ( 64.18 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2343     Date: 05/18/06 Time: 10:48:35 CPU Time: 0 0: 1:10.63 ( 70.63 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 1.125125E+05 days
 2346     Date: 05/18/06 Time: 10:48:43 CPU Time: 0 0: 1:18.14 ( 78.14 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 1.133195E+05 days
 2349     Date: 05/18/06 Time: 10:48:47 CPU Time: 0 0: 1:22.32 ( 82.32 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 1.135730E+05 days
 2352     Date: 05/18/06 Time: 10:48:52 CPU Time: 0 0: 1:27.11 ( 87.11 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 1.168842E+05 days
 2355     Date: 05/18/06 Time: 10:48:57 CPU Time: 0 0: 1:32.22 ( 92.22 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 1.332167E+05 days
 2358     Date: 05/18/06 Time: 10:49:03 CPU Time: 0 0: 1:38.39 ( 98.39 sec) Binary
 2360     Time Step No. = 480 Elapsed Time = 1.516402E+05 days
 2361     Date: 05/18/06 Time: 10:49:11 CPU Time: 0 0: 1:45.76 ( 105.76 sec) Binary
 2363     Time Step No. = 500 Elapsed Time = 1.516853E+05 days
 2364     Date: 05/18/06 Time: 10:49:15 CPU Time: 0 0: 1:50.02 ( 110.02 sec) Binary
 2366     Time Step No. = 520 Elapsed Time = 1.529846E+05 days
 2367     Date: 05/18/06 Time: 10:49:19 CPU Time: 0 0: 1:54.07 ( 114.07 sec) Binary
 2369     Time Step No. = 540 Elapsed Time = 1.811566E+05 days
 2370     Date: 05/18/06 Time: 10:49:24 CPU Time: 0 0: 1:58.98 ( 118.98 sec) Binary
 2372     Time Step No. = 560 Elapsed Time = 3.652431E+05 days
 2373     Date: 05/18/06 Time: 10:49:34 CPU Time: 0 0: 2: 8.49 ( 128.49 sec) Binary
 2375     Time Step No. = 580 Elapsed Time = 3.652431E+05 days
 2376     Date: 05/18/06 Time: 10:49:36 CPU Time: 0 0: 2:10.69 ( 130.69 sec) Binary
 2378     Time Step No. = 600 Elapsed Time = 3.652431E+05 days
 2379     Date: 05/18/06 Time: 10:49:38 CPU Time: 0 0: 2:12.88 ( 132.88 sec) Binary
 2381     Time Step No. = 620 Elapsed Time = 3.652439E+05 days
 2382     Date: 05/18/06 Time: 10:49:40 CPU Time: 0 0: 2:15.22 ( 135.22 sec) Binary
 2384     Time Step No. = 640 Elapsed Time = 3.652792E+05 days
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2385    Date: 05/18/06 Time: 10:49:44 CPU Time: 0 0: 2:18.79 ( 138.79 sec) Binary
2387    Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2388    Date: 05/18/06 Time: 10:49:49 CPU Time: 0 0: 2:23.41 ( 143.41 sec) Binary
2390    Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2391    Date: 05/18/06 Time: 10:49:54 CPU Time: 0 0: 2:28.51 ( 148.51 sec) Binary
2393    Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2394    Date: 05/18/06 Time: 10:49:56 CPU Time: 0 0: 2:30.30 ( 150.30 sec) Binary
2396    Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2397    Date: 05/18/06 Time: 10:49:59 CPU Time: 0 0: 2:33.80 ( 153.80 sec) Binary
2399    Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2400    Date: 05/18/06 Time: 10:50:04 CPU Time: 0 0: 2:38.98 ( 158.98 sec) Binary
2402    Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2403    Date: 05/18/06 Time: 10:50:09 CPU Time: 0 0: 2:43.85 ( 163.85 sec) Binary
2405    Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2406    Date: 05/18/06 Time: 10:50:16 CPU Time: 0 0: 2:50.38 ( 170.38 sec) Binary
2408    Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2409    Date: 05/18/06 Time: 10:50:22 CPU Time: 0 0: 2:56.11 ( 176.11 sec) Binary
2411    Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2412    Date: 05/18/06 Time: 10:50:25 CPU Time: 0 0: 2:59.86 ( 179.86 sec) Binary
2414    Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2415    Date: 05/18/06 Time: 10:50:33 CPU Time: 0 0: 3: 7.55 ( 187.55 sec) Binary
2417    Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2418    Date: 05/18/06 Time: 10:50:40 CPU Time: 0 0: 3:14.44 ( 194.44 sec) Binary
2420    Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2421    Date: 05/18/06 Time: 10:50:47 CPU Time: 0 0: 3:21.19 ( 201.19 sec) Binary
2423    Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2424    Date: 05/18/06 Time: 10:50:53 CPU Time: 0 0: 3:27.19 ( 207.19 sec) Binary
2426    Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2427    Date: 05/18/06 Time: 10:50:59 CPU Time: 0 0: 3:33.05 ( 213.05 sec) Binary
2429    Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2430    Date: 05/18/06 Time: 10:51:06 CPU Time: 0 0: 3:40.58 ( 220.58 sec) Binary
2432    Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2433    Date: 05/18/06 Time: 10:51:13 CPU Time: 0 0: 3:47.39 ( 227.39 sec) Binary
2435    Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2436    Date: 05/18/06 Time: 10:51:18 CPU Time: 0 0: 3:52.38 ( 232.38 sec) Binary
2438    Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2439    Date: 05/18/06 Time: 10:51:26 CPU Time: 0 0: 3:59.97 ( 239.97 sec) Binary
2441    Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2442    Date: 05/18/06 Time: 10:51:31 CPU Time: 0 0: 4: 5.65 ( 245.65 sec) Binary
2444    Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2445    Date: 05/18/06 Time: 10:51:40 CPU Time: 0 0: 4:14.25 ( 254.25 sec) Binary
2447    Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2448    Date: 05/18/06 Time: 10:51:45 CPU Time: 0 0: 4:19.30 ( 259.30 sec) Binary
2450    Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2451    Date: 05/18/06 Time: 10:51:51 CPU Time: 0 0: 4:24.88 ( 264.88 sec) Binary
2453    Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2454    Date: 05/18/06 Time: 10:51:57 CPU Time: 0 0: 4:31.66 ( 271.66 sec) Binary
2456    Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2457    Date: 05/18/06 Time: 10:52:03 CPU Time: 0 0: 4:37.73 ( 277.73 sec) Binary
2459    Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2460    Date: 05/18/06 Time: 10:52:10 CPU Time: 0 0: 4:44.62 ( 284.62 sec) Binary
2462    Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2463    Date: 05/18/06 Time: 10:52:17 CPU Time: 0 0: 4:51.57 ( 291.57 sec) Binary
2465    Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2466    Date: 05/18/06 Time: 10:52:25 CPU Time: 0 0: 4:58.88 ( 298.88 sec) Binary
2468    Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2469    Date: 05/18/06 Time: 10:52:31 CPU Time: 0 0: 5: 5.32 ( 305.32 sec) Binary
2471    Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2472    Date: 05/18/06 Time: 10:52:37 CPU Time: 0 0: 5:10.81 ( 310.81 sec) Binary
2474    Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2475    Date: 05/18/06 Time: 10:52:42 CPU Time: 0 0: 5:16.25 ( 316.25 sec) Binary
2477    Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2478    Date: 05/18/06 Time: 10:52:49 CPU Time: 0 0: 5:23.63 ( 323.63 sec) Binary
2480    Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2481    Date: 05/18/06 Time: 10:52:55 CPU Time: 0 0: 5:29.14 ( 329.14 sec) Binary
2483    Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2484    Date: 05/18/06 Time: 10:53:02 CPU Time: 0 0: 5:35.78 ( 335.78 sec) Binary
2486    Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2487    Date: 05/18/06 Time: 10:53:08 CPU Time: 0 0: 5:42.17 ( 342.17 sec) Binary
2489    Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2490    Date: 05/18/06 Time: 10:53:12 CPU Time: 0 0: 5:45.73 ( 345.73 sec) Binary
2492    Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
2493    Date: 05/18/06 Time: 10:53:15 CPU Time: 0 0: 5:49.39 ( 349.39 sec) Binary
2496    Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2658     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2659     CPU Time (total for run) = 430.01 sec = 0.11945 hr
 2660     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 2512     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2513     CPU Time (total for run) = 352.13 sec = 0.09781 hr
 2514     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 3336     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
 3338     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
 3344     ******************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3347     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
 3190     Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0: 5:52.15 ( 352.15 sec) ASCII
 3192     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3193     Date: 05/18/06 Time: 10:53:18 CPU Time: 0 0: 5:52.15 ( 352.15 sec) Binary
 3198     ******************************************************************************
 3199     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3200     * Completed: 05/18/06 at 10:53:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3201     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 367

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_VMS82_V500_ES47_TEST7_R016.OUT;1
```

BF2_QB0600_ES47_TEST7_V017_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:53:37 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_TEST7_R017_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   72     ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   72      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
   77      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.SUM;1
   77      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
   82      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.BIN;1
   82      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
   87      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R017]BF2_VMS82_V500_ES47_TEST7_R017.ROT;1
   87      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
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234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
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  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  828     Special material index numbers:
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************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 5.332000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 5.332000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
```

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H2 coefficient = 1.156000E+00
H2O coefficient = -1.688000E+00
Fe coefficient = -1.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 2:
H2 coefficient = 5.332000E-01
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = -1.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 3:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 4:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 5:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 6:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 7:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Wicking term (SATWICK) = 0.000000E+00
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 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.156000E+00
 1069     H2O coefficient = 1.688000E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 5.332000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
***************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
**********************************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 20.26 sec = 0.00563 hr
 1628     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 2450     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.081566E-01 days
 2456     Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 ( 26.45 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.566025E+01 days
 2459     Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 ( 30.15 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.805959E+03 days
 2462     Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 ( 35.13 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.071373E+04 days
 2465     Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 ( 42.17 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.383842E+04 days
 2468     Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 ( 49.61 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 2.798180E+04 days
 2471     Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 ( 60.82 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 2.847338E+04 days
 2474     Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 ( 66.12 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652452E+04 days
 2477     Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 ( 71.21 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.656711E+04 days
 2480     Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 ( 75.84 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.666399E+04 days
 2483     Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 ( 79.58 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.668035E+04 days
 2486     Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 ( 81.65 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.804994E+04 days
 2489     Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 ( 85.72 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 4.830166E+04 days
 2492     Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 ( 93.84 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 5.127831E+04 days
 2495     Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 ( 104.68 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 5.134701E+04 days
 2498     Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 ( 108.03 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 5.218497E+04 days
 2501     Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 ( 114.68 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 6.083942E+04 days
 2504     Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 ( 120.04 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 7.130398E+04 days
 2507     Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 ( 128.50 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 7.759660E+04 days
 2510     Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 ( 134.76 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 7.800566E+04 days
 2513     Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 ( 141.94 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 7.817753E+04 days
 2516     Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 ( 146.04 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 8.514452E+04 days
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2519    Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 ( 151.03 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522    Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 ( 158.33 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525    Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 ( 168.53 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528    Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 ( 174.87 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531    Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 ( 180.63 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534    Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 ( 188.00 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537    Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 ( 193.70 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540    Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 ( 204.27 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543    Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 ( 210.22 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546    Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 ( 216.16 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549    Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 ( 220.60 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552    Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 ( 225.07 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555    Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 ( 226.57 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558    Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 ( 230.33 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561    Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 ( 236.66 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564    Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 ( 246.11 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567    Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 ( 252.76 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 ( 261.71 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573    Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 ( 269.60 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576    Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 ( 276.08 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579    Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 ( 285.79 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582    Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 ( 293.57 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585    Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 ( 303.15 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588    Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 ( 309.18 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591    Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 ( 317.07 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594    Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 ( 327.37 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597    Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 ( 333.15 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600    Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 ( 341.97 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603    Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 ( 349.44 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606    Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 ( 358.38 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609    Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 ( 366.96 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612    Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 ( 375.06 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615    Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 ( 385.12 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618    Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 ( 394.07 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621    Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 ( 398.45 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624    Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 ( 406.09 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627    Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 ( 413.55 sec) Binary
2629    Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630    Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 ( 417.51 sec) Binary
2632    Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
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 2633     Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 ( 426.14 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
 2636     Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 ( 430.23 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
 2639     Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 ( 434.31 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
 2642     Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 ( 438.38 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
 2645     Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 ( 442.33 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
 2648     Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 ( 446.28 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 2304     Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0: 0:20.28 ( 20.28 sec) ASCII
 2306     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:53:57 CPU Time: 0 0: 0:20.28 ( 20.28 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 4.081566E-01 days
 2310     Date: 05/18/06 Time: 10:53:59 CPU Time: 0 0: 0:22.72 ( 22.72 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 3.566025E+01 days
 2313     Date: 05/18/06 Time: 10:54:03 CPU Time: 0 0: 0:26.05 ( 26.05 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 1.805959E+03 days
 2316     Date: 05/18/06 Time: 10:54:07 CPU Time: 0 0: 0:30.64 ( 30.64 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 1.071373E+04 days
 2319     Date: 05/18/06 Time: 10:54:14 CPU Time: 0 0: 0:36.84 ( 36.84 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 2.383842E+04 days
 2322     Date: 05/18/06 Time: 10:54:20 CPU Time: 0 0: 0:43.19 ( 43.19 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 2.798180E+04 days
 2325     Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:52.27 ( 52.27 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 2.847338E+04 days
 2328     Date: 05/18/06 Time: 10:54:34 CPU Time: 0 0: 0:56.64 ( 56.64 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.652452E+04 days
 2331     Date: 05/18/06 Time: 10:54:38 CPU Time: 0 0: 1: 0.84 ( 60.84 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 3.656711E+04 days
 2334     Date: 05/18/06 Time: 10:54:42 CPU Time: 0 0: 1: 4.69 ( 64.69 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 3.666399E+04 days
 2337     Date: 05/18/06 Time: 10:54:45 CPU Time: 0 0: 1: 7.79 ( 67.79 sec) Binary
 2339     Time Step No. = 340 Elapsed Time = 3.668035E+04 days
 2340     Date: 05/18/06 Time: 10:54:46 CPU Time: 0 0: 1: 9.49 ( 69.49 sec) Binary
 2342     Time Step No. = 360 Elapsed Time = 3.804994E+04 days
 2343     Date: 05/18/06 Time: 10:54:50 CPU Time: 0 0: 1:12.83 ( 72.83 sec) Binary
 2345     Time Step No. = 380 Elapsed Time = 4.830166E+04 days
 2346     Date: 05/18/06 Time: 10:54:57 CPU Time: 0 0: 1:19.91 ( 79.91 sec) Binary
 2348     Time Step No. = 400 Elapsed Time = 5.127831E+04 days
 2349     Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 1:29.66 ( 89.66 sec) Binary
 2351     Time Step No. = 420 Elapsed Time = 5.134701E+04 days
 2352     Date: 05/18/06 Time: 10:55:10 CPU Time: 0 0: 1:32.70 ( 92.70 sec) Binary
 2354     Time Step No. = 440 Elapsed Time = 5.218497E+04 days
 2355     Date: 05/18/06 Time: 10:55:16 CPU Time: 0 0: 1:38.70 ( 98.70 sec) Binary
 2357     Time Step No. = 460 Elapsed Time = 6.083942E+04 days
 2358     Date: 05/18/06 Time: 10:55:20 CPU Time: 0 0: 1:43.16 ( 103.16 sec) Binary
 2360     Time Step No. = 480 Elapsed Time = 7.130398E+04 days
 2361     Date: 05/18/06 Time: 10:55:27 CPU Time: 0 0: 1:50.12 ( 110.12 sec) Binary
 2363     Time Step No. = 500 Elapsed Time = 7.759660E+04 days
 2364     Date: 05/18/06 Time: 10:55:32 CPU Time: 0 0: 1:55.29 ( 115.29 sec) Binary
 2366     Time Step No. = 520 Elapsed Time = 7.800566E+04 days
 2367     Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 2: 1.19 ( 121.19 sec) Binary
 2369     Time Step No. = 540 Elapsed Time = 7.817753E+04 days
 2370     Date: 05/18/06 Time: 10:55:42 CPU Time: 0 0: 2: 4.55 ( 124.55 sec) Binary
 2372     Time Step No. = 560 Elapsed Time = 8.514452E+04 days
 2373     Date: 05/18/06 Time: 10:55:46 CPU Time: 0 0: 2: 8.68 ( 128.68 sec) Binary
 2375     Time Step No. = 580 Elapsed Time = 1.017547E+05 days
 2376     Date: 05/18/06 Time: 10:55:52 CPU Time: 0 0: 2:14.73 ( 134.73 sec) Binary
 2378     Time Step No. = 600 Elapsed Time = 1.389481E+05 days
 2379     Date: 05/18/06 Time: 10:56:00 CPU Time: 0 0: 2:23.21 ( 143.21 sec) Binary
 2381     Time Step No. = 620 Elapsed Time = 1.423530E+05 days
 2382     Date: 05/18/06 Time: 10:56:06 CPU Time: 0 0: 2:28.49 ( 148.49 sec) Binary
 2384     Time Step No. = 640 Elapsed Time = 1.864304E+05 days
 2385     Date: 05/18/06 Time: 10:56:11 CPU Time: 0 0: 2:33.29 ( 153.29 sec) Binary
 2387     Time Step No. = 660 Elapsed Time = 1.882230E+05 days
 2388     Date: 05/18/06 Time: 10:56:17 CPU Time: 0 0: 2:39.67 ( 159.67 sec) Binary
 2390     Time Step No. = 680 Elapsed Time = 1.986077E+05 days
 2391     Date: 05/18/06 Time: 10:56:22 CPU Time: 0 0: 2:44.87 ( 164.87 sec) Binary
 2393     Time Step No. = 700 Elapsed Time = 2.830917E+05 days
 2394     Date: 05/18/06 Time: 10:56:32 CPU Time: 0 0: 2:54.55 ( 174.55 sec) Binary
 2396     Time Step No. = 720 Elapsed Time = 3.158487E+05 days
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 2397    Date: 05/18/06 Time: 10:56:37 CPU Time: 0 0: 3: 0.02 ( 180.02 sec) Binary
 2399    Time Step No. = 740 Elapsed Time = 3.652487E+05 days
 2400    Date: 05/18/06 Time: 10:56:43 CPU Time: 0 0: 3: 5.41 ( 185.41 sec) Binary
 2402    Time Step No. = 760 Elapsed Time = 3.653477E+05 days
 2403    Date: 05/18/06 Time: 10:56:47 CPU Time: 0 0: 3: 9.45 ( 189.45 sec) Binary
 2405    Time Step No. = 780 Elapsed Time = 3.666426E+05 days
 2406    Date: 05/18/06 Time: 10:56:51 CPU Time: 0 0: 3:13.48 ( 193.48 sec) Binary
 2408    Time Step No. = 800 Elapsed Time = 3.666557E+05 days
 2409    Date: 05/18/06 Time: 10:56:52 CPU Time: 0 0: 3:14.85 ( 194.85 sec) Binary
 2411    Time Step No. = 820 Elapsed Time = 3.676756E+05 days
 2412    Date: 05/18/06 Time: 10:56:56 CPU Time: 0 0: 3:18.27 ( 198.27 sec) Binary
 2414    Time Step No. = 840 Elapsed Time = 4.168857E+05 days
 2415    Date: 05/18/06 Time: 10:57:01 CPU Time: 0 0: 3:24.08 ( 204.08 sec) Binary
 2417    Time Step No. = 860 Elapsed Time = 4.834104E+05 days
 2418    Date: 05/18/06 Time: 10:57:10 CPU Time: 0 0: 3:32.58 ( 212.58 sec) Binary
 2420    Time Step No. = 880 Elapsed Time = 6.250995E+05 days
 2421    Date: 05/18/06 Time: 10:57:16 CPU Time: 0 0: 3:38.60 ( 218.60 sec) Binary
 2423    Time Step No. = 900 Elapsed Time = 6.472604E+05 days
 2424    Date: 05/18/06 Time: 10:57:24 CPU Time: 0 0: 3:46.64 ( 226.64 sec) Binary
 2426    Time Step No. = 920 Elapsed Time = 8.509338E+05 days
 2427    Date: 05/18/06 Time: 10:57:31 CPU Time: 0 0: 3:53.61 ( 233.61 sec) Binary
 2429    Time Step No. = 940 Elapsed Time = 8.666179E+05 days
 2430    Date: 05/18/06 Time: 10:57:36 CPU Time: 0 0: 3:59.04 ( 239.04 sec) Binary
 2432    Time Step No. = 960 Elapsed Time = 8.980547E+05 days
 2433    Date: 05/18/06 Time: 10:57:44 CPU Time: 0 0: 4: 7.06 ( 247.06 sec) Binary
 2435    Time Step No. = 980 Elapsed Time = 9.084805E+05 days
 2436    Date: 05/18/06 Time: 10:57:51 CPU Time: 0 0: 4:13.46 ( 253.46 sec) Binary
 2438    Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
 2439    Date: 05/18/06 Time: 10:57:59 CPU Time: 0 0: 4:21.37 ( 261.37 sec) Binary
 2441    Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
 2442    Date: 05/18/06 Time: 10:58:04 CPU Time: 0 0: 4:26.36 ( 266.36 sec) Binary
 2444    Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
 2445    Date: 05/18/06 Time: 10:58:10 CPU Time: 0 0: 4:32.90 ( 272.90 sec) Binary
 2447    Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
 2448    Date: 05/18/06 Time: 10:58:19 CPU Time: 0 0: 4:41.43 ( 281.43 sec) Binary
 2450    Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
 2451    Date: 05/18/06 Time: 10:58:24 CPU Time: 0 0: 4:46.19 ( 286.19 sec) Binary
 2453    Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
 2454    Date: 05/18/06 Time: 10:58:31 CPU Time: 0 0: 4:53.47 ( 293.47 sec) Binary
 2456    Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
 2457    Date: 05/18/06 Time: 10:58:37 CPU Time: 0 0: 4:59.18 ( 299.18 sec) Binary
 2459    Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
 2460    Date: 05/18/06 Time: 10:58:44 CPU Time: 0 0: 5: 5.91 ( 305.91 sec) Binary
 2462    Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
 2463    Date: 05/18/06 Time: 10:58:50 CPU Time: 0 0: 5:12.61 ( 312.61 sec) Binary
 2465    Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
 2466    Date: 05/18/06 Time: 10:58:57 CPU Time: 0 0: 5:19.22 ( 319.22 sec) Binary
 2468    Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
 2469    Date: 05/18/06 Time: 10:59:05 CPU Time: 0 0: 5:27.57 ( 327.57 sec) Binary
 2471    Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
 2472    Date: 05/18/06 Time: 10:59:12 CPU Time: 0 0: 5:34.65 ( 334.65 sec) Binary
 2474    Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
 2475    Date: 05/18/06 Time: 10:59:16 CPU Time: 0 0: 5:38.02 ( 338.02 sec) Binary
 2477    Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
 2478    Date: 05/18/06 Time: 10:59:22 CPU Time: 0 0: 5:43.92 ( 343.92 sec) Binary
 2480    Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
 2481    Date: 05/18/06 Time: 10:59:28 CPU Time: 0 0: 5:49.90 ( 349.90 sec) Binary
 2483    Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
 2484    Date: 05/18/06 Time: 10:59:31 CPU Time: 0 0: 5:53.20 ( 353.20 sec) Binary
 2486    Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
 2487    Date: 05/18/06 Time: 10:59:39 CPU Time: 0 0: 6: 0.61 ( 360.61 sec) Binary
 2489    Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
 2490    Date: 05/18/06 Time: 10:59:42 CPU Time: 0 0: 6: 4.31 ( 364.31 sec) Binary
 2492    Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
 2493    Date: 05/18/06 Time: 10:59:46 CPU Time: 0 0: 6: 8.05 ( 368.05 sec) Binary
 2495    Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
 2496    Date: 05/18/06 Time: 10:59:50 CPU Time: 0 0: 6:11.80 ( 371.80 sec) Binary
 2498    Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
 2499    Date: 05/18/06 Time: 10:59:53 CPU Time: 0 0: 6:15.45 ( 375.45 sec) Binary
 2501    Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
 2502    Date: 05/18/06 Time: 10:59:57 CPU Time: 0 0: 6:19.07 ( 379.07 sec) Binary
 2505    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 2667    CPU Time (this time step) = 0.19 sec = 0.00005 hr
```

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 2668     CPU Time (total for run) = 447.46 sec = 0.12429 hr
 2669     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 2521     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2522     CPU Time (total for run) = 380.17 sec = 0.10560 hr
 2523     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 3345     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) ASCII
 3347     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) Binary
 3353     ******************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
 3199     Date: 05/18/06 Time: 10:59:58 CPU Time: 0 0: 6:20.18 ( 380.18 sec) ASCII
 3201     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3202     Date: 05/18/06 Time: 10:59:58 CPU Time: 0 0: 6:20.18 ( 380.18 sec) Binary
 3207     ******************************************************************************
 3208     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3209     * Completed: 05/18/06 at 10:59:58 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3210     ******************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 373

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_VMS82_V500_ES47_TEST7_R017.OUT;1
```

BF2_QB0600_ES47_TEST7_V018_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:54:11 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_TEST7_R018_QA0500.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
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   72      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
   77      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.SUM;1
   77      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
   82      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.BIN;1
   82      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
   87      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R018]BF2_VMS82_V500_ES47_TEST7_R018.ROT;1
   87      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
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 236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 249      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 250      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 251      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 252      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 253      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 254      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 255      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 256      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 257      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 258      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 259      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 260      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 261      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 262      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 263      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 264      112 0 0 H2OFLOWIN Water inflow rate kg/s
 265      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 266      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 267      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 268      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 269      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 270      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 271      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 272      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 273      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 274      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 275      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 276      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 195      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 196      44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 197      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 198      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 199      47 1 1 CONCFE Fe concentration -- simple model kg/m^3
 200      48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 201      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 202      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 203      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 204      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 205      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 206      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 207      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 208      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 209      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 210      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 211      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 212      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 213      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 214      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 215      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 216      64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 217      65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 218      66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 219      67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 220      68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
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  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
  828     Special material index numbers:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
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  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 1059     Reaction rate constants (RK):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 9.866000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 9.866000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.263800E+00
 1114     H2O coefficient = -1.472400E+00
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Fe coefficient = -1.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 2:
H2 coefficient = 9.866000E-01
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = -1.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 3:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 4:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 5:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 6:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Stoichiometric coeff's for Rxn 7:
H2 coefficient = 0.000000E+00
H2O coefficient = 0.000000E+00
Fe coefficient = 0.000000E+00
Bio coefficient = 0.000000E+00
Fe(OH)2 coefficient = 0.000000E+00
FeS coefficient = 0.000000E+00
MgO coefficient = 0.000000E+00
Mg(OH)2 coefficient = 0.000000E+00
MgCO3 coefficient = 0.000000E+00
Wicking term (SATWICK) = 0.000000E+00
Humid rates to be smoothed? (LARXN) = T
Concentration rates to be smoothed? (LARXN2) = F
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1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1194     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
1068     Gas coefficient = 1.263800E+00
1069     H2O coefficient = 1.472400E+00
1070     Fe coefficient = 1.000000E+00
1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
1073     Gas coefficient = 9.866000E-01
1074     H2O coefficient = 0.000000E+00
1075     Bio coefficient = 1.000000E+00
1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1200     Molecular weights (WM):
1201     Fe(OH)2: 8.9862E-02 kg/mol
1202     FeS: 8.7900E-02 kg/mol
1203     MgO: 4.0304E-02 kg/mol
1204     Mg(OH)2: 5.8320E-02 kg/mol
1205     MgCO3: 8.4314E-02 kg/mol
1207     Densities (DEN(1-4)):
1208     Fe: 7.8700E+03 kg/m3
1209     Fe(OH)2: 3.4000E+03 kg/m3
1210     FeS: 4.7000E+03 kg/m3
1211     Bio: 1.1000E+03 kg/m3
1213     Densities (DEN(5-8)):
1214     MgO: 3.6000E+03 kg/m3
1215     Mg(OH)2: 2.3700E+03 kg/m3
1216     MgCO3: 3.0500E+03 kg/m3
1217     SALT: 2.1700E+03 kg/m3
1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1083     Wicking term (SATWICK) = 0.000000E+00
1084     Humid rates to be smoothed? (LARXN) = T
1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
1234     PHILOWER = Lower porosity limit in permeability-porosity expression
1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
1237     4 1.480000E+07 3.155700E+12 1 F
1238     MODPERM Parameters
1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1240     4 5.584700E-12 0.000000E+00
1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
1105     Number of materials using closure (NMATCLOS) = 2
************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 19.84 sec = 0.00551 hr
 1774     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 1626     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1627     CPU Time (total for run) = 17.79 sec = 0.00494 hr
 1628     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 2450     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.852005E-01 days
 2456     Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 1.676048E+01 days
 2459     Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 ( 26.53 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 9.685600E+02 days
 2462     Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.090054E+04 days
 2465     Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 ( 38.77 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.542607E+04 days
 2468     Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 ( 48.73 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.655532E+04 days
 2471     Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 ( 55.72 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667264E+04 days
 2474     Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 ( 58.16 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.673502E+04 days
 2477     Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 ( 61.23 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.849232E+04 days
 2480     Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 ( 66.47 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 4.353267E+04 days
 2483     Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 ( 75.69 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 8.646290E+04 days
 2486     Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 ( 82.85 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 1.956099E+05 days
 2489     Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 ( 94.60 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 2.537997E+05 days
 2492     Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 ( 103.87 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.654102E+05 days
 2495     Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 ( 110.19 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.660393E+05 days
 2498     Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 ( 115.53 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.665141E+05 days
 2501     Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 ( 117.53 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.666116E+05 days
 2504     Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 ( 119.66 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.698164E+05 days
 2507     Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 ( 124.34 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.836378E+05 days
 2510     Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 ( 131.72 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 4.773464E+05 days
 2513     Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 ( 141.09 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 4.805632E+05 days
 2516     Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 ( 146.95 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 6.090050E+05 days
 2519     Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 ( 154.33 sec) Binary
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 2521     Time Step No. = 580 Elapsed Time = 6.642533E+05 days
 2522     Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 ( 163.10 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 6.660298E+05 days
 2525     Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 ( 171.35 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 6.750577E+05 days
 2528     Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 ( 177.63 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 8.117950E+05 days
 2531     Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 ( 184.15 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 8.733977E+05 days
 2534     Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 ( 192.64 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 8.853639E+05 days
 2537     Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 ( 200.01 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 8.877123E+05 days
 2540     Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 ( 203.23 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 8.965246E+05 days
 2543     Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 ( 210.91 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 9.678193E+05 days
 2546     Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 ( 217.77 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 9.824276E+05 days
 2549     Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 ( 223.96 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 1.079404E+06 days
 2552     Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 ( 232.82 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 1.220016E+06 days
 2555     Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 ( 242.14 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 1.358888E+06 days
 2558     Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 ( 250.66 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 1.367185E+06 days
 2561     Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 1.592454E+06 days
 2564     Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 ( 264.37 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 1.607973E+06 days
 2567     Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.611408E+06 days
 2570     Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 ( 280.05 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.629376E+06 days
 2573     Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 ( 286.63 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.713757E+06 days
 2576     Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 ( 291.88 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 2.091414E+06 days
 2579     Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 ( 299.50 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 2.491414E+06 days
 2582     Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 ( 305.09 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
 2585     Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 ( 314.88 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
 2588     Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 ( 320.98 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
 2591     Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 ( 327.20 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
 2594     Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 ( 334.26 sec) Binary
 2597     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 2304     Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:17.79 ( 17.79 sec) ASCII
 2306     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2307     Date: 05/18/06 Time: 10:54:29 CPU Time: 0 0: 0:17.79 ( 17.79 sec) Binary
 2309     Time Step No. = 140 Elapsed Time = 1.852005E-01 days
 2310     Date: 05/18/06 Time: 10:54:32 CPU Time: 0 0: 0:20.12 ( 20.12 sec) Binary
 2312     Time Step No. = 160 Elapsed Time = 1.676048E+01 days
 2313     Date: 05/18/06 Time: 10:54:35 CPU Time: 0 0: 0:23.19 ( 23.19 sec) Binary
 2315     Time Step No. = 180 Elapsed Time = 9.685600E+02 days
 2316     Date: 05/18/06 Time: 10:54:39 CPU Time: 0 0: 0:27.52 ( 27.52 sec) Binary
 2318     Time Step No. = 200 Elapsed Time = 1.090054E+04 days
 2319     Date: 05/18/06 Time: 10:54:45 CPU Time: 0 0: 0:33.09 ( 33.09 sec) Binary
 2321     Time Step No. = 220 Elapsed Time = 3.542607E+04 days
 2322     Date: 05/18/06 Time: 10:54:53 CPU Time: 0 0: 0:41.16 ( 41.16 sec) Binary
 2324     Time Step No. = 240 Elapsed Time = 3.655532E+04 days
 2325     Date: 05/18/06 Time: 10:54:58 CPU Time: 0 0: 0:46.70 ( 46.70 sec) Binary
 2327     Time Step No. = 260 Elapsed Time = 3.667264E+04 days
 2328     Date: 05/18/06 Time: 10:55:00 CPU Time: 0 0: 0:48.62 ( 48.62 sec) Binary
 2330     Time Step No. = 280 Elapsed Time = 3.673502E+04 days
 2331     Date: 05/18/06 Time: 10:55:03 CPU Time: 0 0: 0:51.04 ( 51.04 sec) Binary
 2333     Time Step No. = 300 Elapsed Time = 3.849232E+04 days
 2334     Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 0:55.20 ( 55.20 sec) Binary
 2336     Time Step No. = 320 Elapsed Time = 4.353267E+04 days
 2337     Date: 05/18/06 Time: 10:55:14 CPU Time: 0 0: 1: 2.79 ( 62.79 sec) Binary
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2339    Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2340    Date: 05/18/06 Time: 10:55:20 CPU Time: 0 0: 1: 8.76 ( 68.76 sec) Binary
2342    Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2343    Date: 05/18/06 Time: 10:55:30 CPU Time: 0 0: 1:18.75 ( 78.75 sec) Binary
2345    Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2346    Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 1:26.82 ( 86.82 sec) Binary
2348    Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2349    Date: 05/18/06 Time: 10:55:44 CPU Time: 0 0: 1:32.32 ( 92.32 sec) Binary
2351    Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2352    Date: 05/18/06 Time: 10:55:49 CPU Time: 0 0: 1:37.04 ( 97.04 sec) Binary
2354    Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2355    Date: 05/18/06 Time: 10:55:50 CPU Time: 0 0: 1:38.82 ( 98.82 sec) Binary
2357    Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2358    Date: 05/18/06 Time: 10:55:52 CPU Time: 0 0: 1:40.71 ( 100.71 sec) Binary
2360    Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2361    Date: 05/18/06 Time: 10:55:56 CPU Time: 0 0: 1:44.87 ( 104.87 sec) Binary
2363    Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2364    Date: 05/18/06 Time: 10:56:03 CPU Time: 0 0: 1:51.42 ( 111.42 sec) Binary
2366    Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2367    Date: 05/18/06 Time: 10:56:11 CPU Time: 0 0: 1:59.73 ( 119.73 sec) Binary
2369    Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2370    Date: 05/18/06 Time: 10:56:16 CPU Time: 0 0: 2: 4.93 ( 124.93 sec) Binary
2372    Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2373    Date: 05/18/06 Time: 10:56:23 CPU Time: 0 0: 2:11.49 ( 131.49 sec) Binary
2375    Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2376    Date: 05/18/06 Time: 10:56:31 CPU Time: 0 0: 2:19.26 ( 139.26 sec) Binary
2378    Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2379    Date: 05/18/06 Time: 10:56:38 CPU Time: 0 0: 2:26.58 ( 146.58 sec) Binary
2381    Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2382    Date: 05/18/06 Time: 10:56:44 CPU Time: 0 0: 2:32.10 ( 152.10 sec) Binary
2384    Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2385    Date: 05/18/06 Time: 10:56:49 CPU Time: 0 0: 2:37.88 ( 157.88 sec) Binary
2387    Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2388    Date: 05/18/06 Time: 10:56:57 CPU Time: 0 0: 2:45.21 ( 165.21 sec) Binary
2390    Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2391    Date: 05/18/06 Time: 10:57:03 CPU Time: 0 0: 2:51.13 ( 171.13 sec) Binary
2393    Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2394    Date: 05/18/06 Time: 10:57:05 CPU Time: 0 0: 2:53.66 ( 173.66 sec) Binary
2396    Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2397    Date: 05/18/06 Time: 10:57:11 CPU Time: 0 0: 2:59.77 ( 179.77 sec) Binary
2399    Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2400    Date: 05/18/06 Time: 10:57:17 CPU Time: 0 0: 3: 5.25 ( 185.25 sec) Binary
2402    Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2403    Date: 05/18/06 Time: 10:57:22 CPU Time: 0 0: 3:10.16 ( 190.16 sec) Binary
2405    Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2406    Date: 05/18/06 Time: 10:57:29 CPU Time: 0 0: 3:17.26 ( 197.26 sec) Binary
2408    Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2409    Date: 05/18/06 Time: 10:57:37 CPU Time: 0 0: 3:25.07 ( 205.07 sec) Binary
2411    Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2412    Date: 05/18/06 Time: 10:57:44 CPU Time: 0 0: 3:32.17 ( 212.17 sec) Binary
2414    Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2415    Date: 05/18/06 Time: 10:57:50 CPU Time: 0 0: 3:37.66 ( 217.66 sec) Binary
2417    Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2418    Date: 05/18/06 Time: 10:57:55 CPU Time: 0 0: 3:43.30 ( 223.30 sec) Binary
2420    Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2421    Date: 05/18/06 Time: 10:58:03 CPU Time: 0 0: 3:51.38 ( 231.38 sec) Binary
2423    Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2424    Date: 05/18/06 Time: 10:58:08 CPU Time: 0 0: 3:55.91 ( 235.91 sec) Binary
2426    Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2427    Date: 05/18/06 Time: 10:58:13 CPU Time: 0 0: 4: 1.23 ( 241.23 sec) Binary
2429    Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2430    Date: 05/18/06 Time: 10:58:17 CPU Time: 0 0: 4: 5.45 ( 245.45 sec) Binary
2432    Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2433    Date: 05/18/06 Time: 10:58:24 CPU Time: 0 0: 4:11.55 ( 251.55 sec) Binary
2435    Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2436    Date: 05/18/06 Time: 10:58:28 CPU Time: 0 0: 4:16.07 ( 256.07 sec) Binary
2438    Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2439    Date: 05/18/06 Time: 10:58:36 CPU Time: 0 0: 4:23.93 ( 263.93 sec) Binary
2441    Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2442    Date: 05/18/06 Time: 10:58:41 CPU Time: 0 0: 4:28.83 ( 268.83 sec) Binary
2444    Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2445    Date: 05/18/06 Time: 10:58:46 CPU Time: 0 0: 4:33.84 ( 273.84 sec) Binary
2447    Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2448    Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0: 4:39.51 ( 279.51 sec) Binary
2451    Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 2613     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2614     CPU Time (total for run) = 335.38 sec = 0.09316 hr
 2615    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 2467     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2468     CPU Time (total for run) = 280.42 sec = 0.07789 hr
 2469    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 3291     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
 3293     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3294     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
 3299     ******************************************************************************
 3300     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3301     * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3302     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
 3145     Date: 05/18/06 Time: 10:58:52 CPU Time: 0 0: 4:40.44 ( 280.44 sec) ASCII
 3147     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3148     Date: 05/18/06 Time: 10:58:52 CPU Time: 0 0: 4:40.44 ( 280.44 sec) Binary
 3153     ******************************************************************************
 3154     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3155     * Completed: 05/18/06 at 10:58:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3156     ******************************************************************************
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Number of difference sections found: 23
Number of difference records found: 337

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_VMS82_V500_ES47_TEST7_R018.OUT;1
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BF2_QB0600_ES47_TEST7_V019_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:54:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_TEST7_R019_QA0500.INP;1
   62     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   72     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
   86     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R019]BF2_VMS82_V500_ES47_TEST7_R019.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  195     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201     49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209     57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210     58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
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233     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
234     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
235     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
236     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
237     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
238     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
239     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
240     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
241     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
242     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
243     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
244     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
245     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
246     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
247     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
248     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
249     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
250     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
251     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
252     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
253     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
254     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
255     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
256     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
257     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
258     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
259     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
260     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
261     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
262     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
263     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
264     112 0 0 H2OFLOWIN Water inflow rate kg/s
265     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
266     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
267     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
268     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
269     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
270     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
271     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
272     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
273     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
274     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
275     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
276     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
195     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
196     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
197     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
198     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
199     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
200     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
201     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
202     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
203     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
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  218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  247     95 0 0 H2OFLOWIN Water inflow rate kg/s
  248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ---------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  695     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697     ---------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  844     39 CAVITY_5
  846     Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  828     Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  860     where IC's will be reset (NMATRESET) = 5
  861     Material type indexes of material regions
  862     where IC's will be reset (MATRESET) = 7 8 9 10 39
  864     Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  842     where IC's will be reset (NMATRESET) = 4
  843     Material type indexes of material regions
  844     where IC's will be reset (MATRESET) = 7 8 9 10
  846     Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  869     instead of Input IC's for the Cavities
  870     [0=No, 1=Yes] (ICWASTE) = 1
  872     Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873     Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874     Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875     Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876     Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877     Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878     Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879     Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880     Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881     Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  851     instead of Input IC's for the Waste
  852     [0=No, 1=Yes] (ICWASTE) = 1
  854     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855     Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857     Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859     ------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
  949     39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950     TOL = 1.0000E-02
  951     SOCEFFMIN = 1.0000E-03
  953     Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
  926     Fracture model will be used? (KFRACTURE): T
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1086     Intrinsic reaction rate constants? (LINTRIN): F
 1088     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1059     Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 6.099000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 6.099000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
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1112    Stoichiometric coeff's for Rxn 1:
1113    H2 coefficient = 1.112000E+00
1114    H2O coefficient = -1.775900E+00
1115    Fe coefficient = -1.000000E+00
1116    Bio coefficient = 0.000000E+00
1117    Fe(OH)2 coefficient = 0.000000E+00
1118    FeS coefficient = 0.000000E+00
1119    MgO coefficient = 0.000000E+00
1120    Mg(OH)2 coefficient = 0.000000E+00
1121    MgCO3 coefficient = 0.000000E+00
1123    Stoichiometric coeff's for Rxn 2:
1124    H2 coefficient = 6.099000E-01
1125    H2O coefficient = 0.000000E+00
1126    Fe coefficient = 0.000000E+00
1127    Bio coefficient = -1.000000E+00
1128    Fe(OH)2 coefficient = 0.000000E+00
1129    FeS coefficient = 0.000000E+00
1130    MgO coefficient = 0.000000E+00
1131    Mg(OH)2 coefficient = 0.000000E+00
1132    MgCO3 coefficient = 0.000000E+00
1134    Stoichiometric coeff's for Rxn 3:
1135    H2 coefficient = 0.000000E+00
1136    H2O coefficient = 0.000000E+00
1137    Fe coefficient = 0.000000E+00
1138    Bio coefficient = 0.000000E+00
1139    Fe(OH)2 coefficient = 0.000000E+00
1140    FeS coefficient = 0.000000E+00
1141    MgO coefficient = 0.000000E+00
1142    Mg(OH)2 coefficient = 0.000000E+00
1143    MgCO3 coefficient = 0.000000E+00
1145    Stoichiometric coeff's for Rxn 4:
1146    H2 coefficient = 0.000000E+00
1147    H2O coefficient = 0.000000E+00
1148    Fe coefficient = 0.000000E+00
1149    Bio coefficient = 0.000000E+00
1150    Fe(OH)2 coefficient = 0.000000E+00
1151    FeS coefficient = 0.000000E+00
1152    MgO coefficient = 0.000000E+00
1153    Mg(OH)2 coefficient = 0.000000E+00
1154    MgCO3 coefficient = 0.000000E+00
1156    Stoichiometric coeff's for Rxn 5:
1157    H2 coefficient = 0.000000E+00
1158    H2O coefficient = 0.000000E+00
1159    Fe coefficient = 0.000000E+00
1160    Bio coefficient = 0.000000E+00
1161    Fe(OH)2 coefficient = 0.000000E+00
1162    FeS coefficient = 0.000000E+00
1163    MgO coefficient = 0.000000E+00
1164    Mg(OH)2 coefficient = 0.000000E+00
1165    MgCO3 coefficient = 0.000000E+00
1167    Stoichiometric coeff's for Rxn 6:
1168    H2 coefficient = 0.000000E+00
1169    H2O coefficient = 0.000000E+00
1170    Fe coefficient = 0.000000E+00
1171    Bio coefficient = 0.000000E+00
1172    Fe(OH)2 coefficient = 0.000000E+00
1173    FeS coefficient = 0.000000E+00
1174    MgO coefficient = 0.000000E+00
1175    Mg(OH)2 coefficient = 0.000000E+00
1176    MgCO3 coefficient = 0.000000E+00
1178    Stoichiometric coeff's for Rxn 7:
1179    H2 coefficient = 0.000000E+00
1180    H2O coefficient = 0.000000E+00
1181    Fe coefficient = 0.000000E+00
1182    Bio coefficient = 0.000000E+00
1183    Fe(OH)2 coefficient = 0.000000E+00
1184    FeS coefficient = 0.000000E+00
1185    MgO coefficient = 0.000000E+00
1186    Mg(OH)2 coefficient = 0.000000E+00
1187    MgCO3 coefficient = 0.000000E+00
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 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.112000E+00
 1069     H2O coefficient = 1.775900E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 6.099000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
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 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 32.43 sec = 0.00901 hr
 1774     ***********************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 1626     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1627     CPU Time (total for run) = 27.43 sec = 0.00762 hr
 1628     ***********************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2450     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 ( 32.44 sec) ASCII
 2452     Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 ( 32.45 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 ( 35.30 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.919446E-01 days
 2459     Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 ( 38.93 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.981381E+01 days
 2462     Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 ( 43.18 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.084405E+02 days
 2465     Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 ( 48.82 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 6.597767E+03 days
 2468     Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 ( 56.00 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 8.104276E+03 days
 2471     Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.013249E+04 days
 2474     Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 ( 65.55 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 1.796897E+04 days
 2477     Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 ( 72.86 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 2.541947E+04 days
 2480     Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 ( 77.73 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483     Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 ( 83.38 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.652446E+04 days
 2486     Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 ( 88.94 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 3.653794E+04 days
 2489     Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 ( 92.23 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.665472E+04 days
 2492     Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 ( 95.80 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.667516E+04 days
 2495     Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 ( 98.18 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.724922E+04 days
 2498     Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 ( 102.84 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 5.413046E+04 days
 2501     Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 ( 108.71 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 9.100708E+04 days
 2504     Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 ( 119.87 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.470830E+05 days
 2507     Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 ( 127.71 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 2.204613E+05 days
 2510     Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 ( 138.80 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 2.691848E+05 days
 2513     Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 ( 147.70 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 2.832034E+05 days
 2516     Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 ( 152.87 sec) Binary
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2518	Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519	Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 ( 161.02 sec) Binary
2521	Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522	Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 ( 169.87 sec) Binary
2524	Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525	Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 ( 179.95 sec) Binary
2527	Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528	Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 ( 185.55 sec) Binary
2530	Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531	Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 ( 192.79 sec) Binary
2533	Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534	Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 ( 199.39 sec) Binary
2536	Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537	Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 ( 205.32 sec) Binary
2539	Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540	Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 ( 211.80 sec) Binary
2542	Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543	Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 ( 214.31 sec) Binary
2545	Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546	Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 ( 217.30 sec) Binary
2548	Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549	Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 ( 224.04 sec) Binary
2551	Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552	Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 ( 231.16 sec) Binary
2554	Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555	Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 ( 237.58 sec) Binary
2557	Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558	Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 ( 246.69 sec) Binary
2560	Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561	Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 ( 254.77 sec) Binary
2563	Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564	Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 ( 259.87 sec) Binary
2566	Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567	Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 ( 264.73 sec) Binary
2569	Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570	Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 ( 271.71 sec) Binary
2572	Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573	Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 ( 277.21 sec) Binary
2575	Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576	Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 ( 282.10 sec) Binary
2578	Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579	Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 ( 290.44 sec) Binary
2581	Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582	Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 ( 297.88 sec) Binary
2584	Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585	Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 ( 302.51 sec) Binary
2587	Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588	Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 ( 309.53 sec) Binary
2590	Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591	Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 ( 312.66 sec) Binary
2593	Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594	Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 ( 318.22 sec) Binary
2596	Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597	Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 ( 323.88 sec) Binary
2599	Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600	Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 ( 330.96 sec) Binary
2602	Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603	Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 ( 334.97 sec) Binary
2605	Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606	Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 ( 342.15 sec) Binary
2608	Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609	Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 ( 349.18 sec) Binary
2611	Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612	Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 ( 355.30 sec) Binary
2614	Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615	Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 ( 362.07 sec) Binary
2617	Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618	Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 ( 370.36 sec) Binary
2620	Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621	Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 ( 378.54 sec) Binary
2623	Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624	Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 ( 382.33 sec) Binary
2626	Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627	Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 ( 390.40 sec) Binary
2629	Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630	Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 ( 400.13 sec) Binary
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2632    Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633    Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 ( 407.48 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636    Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 ( 415.60 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639    Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 ( 422.96 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642    Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 ( 430.82 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645    Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 ( 439.40 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648    Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 ( 448.36 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651    Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 ( 458.34 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654    Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 ( 466.78 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657    Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 ( 476.96 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660    Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 ( 486.46 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663    Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 ( 495.43 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666    Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 ( 504.14 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669    Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 ( 510.80 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672    Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 ( 517.83 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675    Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 ( 524.48 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678    Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 ( 534.75 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681    Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 ( 540.27 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684    Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 ( 547.77 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687    Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 ( 556.77 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690    Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 ( 563.52 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693    Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 ( 571.48 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696    Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699    Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 ( 584.01 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702    Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 ( 591.15 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705    Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 ( 598.80 sec) Binary
2707    Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708    Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
2710    Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711    Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 ( 611.24 sec) Binary
2713    Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714    Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 ( 619.01 sec) Binary
2716    Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717    Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 ( 623.21 sec) Binary
2720    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
2304    Date: 05/18/06 Time: 10:54:47 CPU Time: 0 0: 0:27.45 ( 27.45 sec) ASCII
2306    Time Step No. = 156 Elapsed Time = 0.000000E+00 days
2307    Date: 05/18/06 Time: 10:54:47 CPU Time: 0 0: 0:27.45 ( 27.45 sec) Binary
2309    Time Step No. = 160 Elapsed Time = 7.207031E-03 days
2310    Date: 05/18/06 Time: 10:54:49 CPU Time: 0 0: 0:29.88 ( 29.88 sec) Binary
2312    Time Step No. = 180 Elapsed Time = 9.919446E-01 days
2313    Date: 05/18/06 Time: 10:54:52 CPU Time: 0 0: 0:32.97 ( 32.97 sec) Binary
2315    Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2316    Date: 05/18/06 Time: 10:54:56 CPU Time: 0 0: 0:36.58 ( 36.58 sec) Binary
2318    Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2319    Date: 05/18/06 Time: 10:55:01 CPU Time: 0 0: 0:41.40 ( 41.40 sec) Binary
2321    Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2322    Date: 05/18/06 Time: 10:55:07 CPU Time: 0 0: 0:47.50 ( 47.50 sec) Binary
2324    Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2325    Date: 05/18/06 Time: 10:55:11 CPU Time: 0 0: 0:52.01 ( 52.01 sec) Binary
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2327 Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2328 Date: 05/18/06 Time: 10:55:15 CPU Time: 0 0: 0:55.64 ( 55.64 sec) Binary
2330 Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2331 Date: 05/18/06 Time: 10:55:21 CPU Time: 0 0: 1: 1.86 ( 61.86 sec) Binary
2333 Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2334 Date: 05/18/06 Time: 10:55:25 CPU Time: 0 0: 1: 6.01 ( 66.01 sec) Binary
2336 Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2337 Date: 05/18/06 Time: 10:55:30 CPU Time: 0 0: 1:10.82 ( 70.82 sec) Binary
2339 Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2340 Date: 05/18/06 Time: 10:55:35 CPU Time: 0 0: 1:15.56 ( 75.56 sec) Binary
2342 Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2343 Date: 05/18/06 Time: 10:55:38 CPU Time: 0 0: 1:18.35 ( 78.35 sec) Binary
2345 Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2346 Date: 05/18/06 Time: 10:55:41 CPU Time: 0 0: 1:21.40 ( 81.40 sec) Binary
2348 Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2349 Date: 05/18/06 Time: 10:55:43 CPU Time: 0 0: 1:23.44 ( 83.44 sec) Binary
2351 Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2352 Date: 05/18/06 Time: 10:55:47 CPU Time: 0 0: 1:27.38 ( 87.38 sec) Binary
2354 Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2355 Date: 05/18/06 Time: 10:55:51 CPU Time: 0 0: 1:32.29 ( 92.29 sec) Binary
2357 Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2358 Date: 05/18/06 Time: 10:56:01 CPU Time: 0 0: 1:41.50 ( 101.50 sec) Binary
2360 Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2361 Date: 05/18/06 Time: 10:56:07 CPU Time: 0 0: 1:47.94 ( 107.94 sec) Binary
2363 Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2364 Date: 05/18/06 Time: 10:56:16 CPU Time: 0 0: 1:56.92 ( 116.92 sec) Binary
2366 Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2367 Date: 05/18/06 Time: 10:56:23 CPU Time: 0 0: 2: 3.74 ( 123.74 sec) Binary
2369 Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2370 Date: 05/18/06 Time: 10:56:27 CPU Time: 0 0: 2: 7.79 ( 127.79 sec) Binary
2372 Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2373 Date: 05/18/06 Time: 10:56:33 CPU Time: 0 0: 2:14.16 ( 134.16 sec) Binary
2375 Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2376 Date: 05/18/06 Time: 10:56:40 CPU Time: 0 0: 2:21.07 ( 141.07 sec) Binary
2378 Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2379 Date: 05/18/06 Time: 10:56:48 CPU Time: 0 0: 2:28.79 ( 148.79 sec) Binary
2381 Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2382 Date: 05/18/06 Time: 10:56:52 CPU Time: 0 0: 2:33.05 ( 153.05 sec) Binary
2384 Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2385 Date: 05/18/06 Time: 10:56:58 CPU Time: 0 0: 2:38.57 ( 158.57 sec) Binary
2387 Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2388 Date: 05/18/06 Time: 10:57:03 CPU Time: 0 0: 2:43.59 ( 163.59 sec) Binary
2390 Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2391 Date: 05/18/06 Time: 10:57:07 CPU Time: 0 0: 2:48.05 ( 168.05 sec) Binary
2393 Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2394 Date: 05/18/06 Time: 10:57:12 CPU Time: 0 0: 2:53.00 ( 173.00 sec) Binary
2396 Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2397 Date: 05/18/06 Time: 10:57:14 CPU Time: 0 0: 2:54.91 ( 174.91 sec) Binary
2399 Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2400 Date: 05/18/06 Time: 10:57:17 CPU Time: 0 0: 2:57.18 ( 177.18 sec) Binary
2402 Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2403 Date: 05/18/06 Time: 10:57:22 CPU Time: 0 0: 3: 2.30 ( 182.30 sec) Binary
2405 Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2406 Date: 05/18/06 Time: 10:57:27 CPU Time: 0 0: 3: 7.70 ( 187.70 sec) Binary
2408 Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2409 Date: 05/18/06 Time: 10:57:32 CPU Time: 0 0: 3:12.53 ( 192.53 sec) Binary
2411 Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2412 Date: 05/18/06 Time: 10:57:39 CPU Time: 0 0: 3:19.47 ( 199.47 sec) Binary
2414 Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2415 Date: 05/18/06 Time: 10:57:45 CPU Time: 0 0: 3:26.01 ( 206.01 sec) Binary
2417 Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2418 Date: 05/18/06 Time: 10:57:50 CPU Time: 0 0: 3:30.15 ( 210.15 sec) Binary
2420 Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2421 Date: 05/18/06 Time: 10:57:54 CPU Time: 0 0: 3:34.24 ( 214.24 sec) Binary
2423 Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2424 Date: 05/18/06 Time: 10:58:00 CPU Time: 0 0: 3:40.13 ( 220.13 sec) Binary
2426 Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2427 Date: 05/18/06 Time: 10:58:04 CPU Time: 0 0: 3:44.84 ( 224.84 sec) Binary
2429 Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2430 Date: 05/18/06 Time: 10:58:09 CPU Time: 0 0: 3:49.04 ( 229.04 sec) Binary
2432 Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2433 Date: 05/18/06 Time: 10:58:16 CPU Time: 0 0: 3:56.20 ( 236.20 sec) Binary
2435 Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2436 Date: 05/18/06 Time: 10:58:22 CPU Time: 0 0: 4: 2.76 ( 242.76 sec) Binary
2438 Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2439 Date: 05/18/06 Time: 10:58:26 CPU Time: 0 0: 4: 6.85 ( 246.85 sec) Binary
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2441  Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2442  Date: 05/18/06 Time: 10:58:33 CPU Time: 0 0: 4:13.07 ( 253.07 sec) Binary
2444  Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2445  Date: 05/18/06 Time: 10:58:35 CPU Time: 0 0: 4:15.89 ( 255.89 sec) Binary
2447  Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2448  Date: 05/18/06 Time: 10:58:40 CPU Time: 0 0: 4:20.82 ( 260.82 sec) Binary
2450  Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2451  Date: 05/18/06 Time: 10:58:45 CPU Time: 0 0: 4:25.71 ( 265.71 sec) Binary
2453  Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2454  Date: 05/18/06 Time: 10:58:51 CPU Time: 0 0: 4:31.67 ( 271.67 sec) Binary
2456  Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2457  Date: 05/18/06 Time: 10:58:55 CPU Time: 0 0: 4:35.00 ( 275.00 sec) Binary
2459  Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2460  Date: 05/18/06 Time: 10:59:01 CPU Time: 0 0: 4:40.99 ( 280.99 sec) Binary
2462  Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2463  Date: 05/18/06 Time: 10:59:07 CPU Time: 0 0: 4:46.92 ( 286.92 sec) Binary
2465  Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2466  Date: 05/18/06 Time: 10:59:12 CPU Time: 0 0: 4:51.99 ( 291.99 sec) Binary
2468  Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2469  Date: 05/18/06 Time: 10:59:17 CPU Time: 0 0: 4:57.45 ( 297.45 sec) Binary
2471  Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2472  Date: 05/18/06 Time: 10:59:24 CPU Time: 0 0: 5: 4.34 ( 304.34 sec) Binary
2474  Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2475  Date: 05/18/06 Time: 10:59:31 CPU Time: 0 0: 5:11.10 ( 311.10 sec) Binary
2477  Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2478  Date: 05/18/06 Time: 10:59:34 CPU Time: 0 0: 5:14.09 ( 314.09 sec) Binary
2480  Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2481  Date: 05/18/06 Time: 10:59:40 CPU Time: 0 0: 5:20.44 ( 320.44 sec) Binary
2483  Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2484  Date: 05/18/06 Time: 10:59:48 CPU Time: 0 0: 5:28.13 ( 328.13 sec) Binary
2486  Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2487  Date: 05/18/06 Time: 10:59:54 CPU Time: 0 0: 5:34.05 ( 334.05 sec) Binary
2489  Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2490  Date: 05/18/06 Time: 11:00:00 CPU Time: 0 0: 5:40.53 ( 340.53 sec) Binary
2492  Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2493  Date: 05/18/06 Time: 11:00:06 CPU Time: 0 0: 5:46.36 ( 346.36 sec) Binary
2495  Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2496  Date: 05/18/06 Time: 11:00:13 CPU Time: 0 0: 5:52.76 ( 352.76 sec) Binary
2498  Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2499  Date: 05/18/06 Time: 11:00:20 CPU Time: 0 0: 5:59.81 ( 359.81 sec) Binary
2501  Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2502  Date: 05/18/06 Time: 11:00:27 CPU Time: 0 0: 6: 6.65 ( 366.65 sec) Binary
2504  Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2505  Date: 05/18/06 Time: 11:00:34 CPU Time: 0 0: 6:14.16 ( 374.16 sec) Binary
2507  Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2508  Date: 05/18/06 Time: 11:00:41 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
2510  Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2511  Date: 05/18/06 Time: 11:00:49 CPU Time: 0 0: 6:28.43 ( 388.43 sec) Binary
2513  Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2514  Date: 05/18/06 Time: 11:00:56 CPU Time: 0 0: 6:35.94 ( 395.94 sec) Binary
2516  Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2517  Date: 05/18/06 Time: 11:01:03 CPU Time: 0 0: 6:43.08 ( 403.08 sec) Binary
2519  Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2520  Date: 05/18/06 Time: 11:01:10 CPU Time: 0 0: 6:49.96 ( 409.96 sec) Binary
2522  Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2523  Date: 05/18/06 Time: 11:01:16 CPU Time: 0 0: 6:55.24 ( 415.24 sec) Binary
2525  Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2526  Date: 05/18/06 Time: 11:01:21 CPU Time: 0 0: 7: 0.76 ( 420.76 sec) Binary
2528  Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2529  Date: 05/18/06 Time: 11:01:26 CPU Time: 0 0: 7: 6.05 ( 426.05 sec) Binary
2531  Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2532  Date: 05/18/06 Time: 11:01:35 CPU Time: 0 0: 7:14.44 ( 434.44 sec) Binary
2534  Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2535  Date: 05/18/06 Time: 11:01:40 CPU Time: 0 0: 7:19.26 ( 439.26 sec) Binary
2537  Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2538  Date: 05/18/06 Time: 11:01:46 CPU Time: 0 0: 7:25.80 ( 445.80 sec) Binary
2540  Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2541  Date: 05/18/06 Time: 11:01:54 CPU Time: 0 0: 7:33.63 ( 453.63 sec) Binary
2543  Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2544  Date: 05/18/06 Time: 11:02:00 CPU Time: 0 0: 7:39.52 ( 459.52 sec) Binary
2546  Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2547  Date: 05/18/06 Time: 11:02:07 CPU Time: 0 0: 7:46.47 ( 466.47 sec) Binary
2549  Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2550  Date: 05/18/06 Time: 11:02:13 CPU Time: 0 0: 7:52.41 ( 472.41 sec) Binary
2552  Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2553  Date: 05/18/06 Time: 11:02:18 CPU Time: 0 0: 7:57.34 ( 477.34 sec) Binary
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 2555     Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
 2556     Date: 05/18/06 Time: 11:02:24 CPU Time: 0 0: 8: 3.56 ( 483.56 sec) Binary
 2558     Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
 2559     Date: 05/18/06 Time: 11:02:31 CPU Time: 0 0: 8:10.22 ( 490.22 sec) Binary
 2561     Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
 2562     Date: 05/18/06 Time: 11:02:35 CPU Time: 0 0: 8:14.15 ( 494.15 sec) Binary
 2564     Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
 2565     Date: 05/18/06 Time: 11:02:42 CPU Time: 0 0: 8:21.04 ( 501.04 sec) Binary
 2567     Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
 2568     Date: 05/18/06 Time: 11:02:48 CPU Time: 0 0: 8:27.85 ( 507.85 sec) Binary
 2570     Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
 2571     Date: 05/18/06 Time: 11:02:52 CPU Time: 0 0: 8:31.52 ( 511.52 sec) Binary
 2574     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2736     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2737     CPU Time (total for run) = 626.34 sec = 0.17398 hr
 2738     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 2590     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 2591     CPU Time (total for run) = 514.26 sec = 0.14285 hr
 2592     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 3414     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
 3416     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
 3422     ****************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
 3268     Date: 05/18/06 Time: 11:02:55 CPU Time: 0 0: 8:34.28 ( 514.28 sec) ASCII
 3270     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3271     Date: 05/18/06 Time: 11:02:55 CPU Time: 0 0: 8:34.28 ( 514.28 sec) Binary
 3276     ****************************************************************************
 3277     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3278     * Completed: 05/18/06 at 11:02:55 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3279     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 419

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_VMS82_V500_ES47_TEST7_R019.OUT;1
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BF2_QB0600_ES47_TEST7_V020_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 05/18/06 at 10:59:15 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_TEST7_R020_QA0500.INP;1
   62     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   66      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   72      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST7.R020]BF2_VMS82_V500_ES47_TEST7_R020.ROT;1
   87      ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  195      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  196      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  197      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  198      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  199      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  200      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  201      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  202      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  203      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  204      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  205      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  206      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  207      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  208      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  209      57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  210      58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  211      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  212      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  213      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  214      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  215      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  216      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  217      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  218      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  219      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
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  220      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  221      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  222      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  223      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  224      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  225      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  226      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  227      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  228      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  229      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  230      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  231      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  232      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  233      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  234      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  235      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  236      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  237      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  238      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  239      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  240      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  241      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  242      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  243      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  244      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  245      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  246      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  247      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  248      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  249      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  250      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  251      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  252      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  253      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  254      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  255      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  256      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  257      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  258      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  259      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  260      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  261      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  262      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  263      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  264      112 0 0 H2OFLOWIN Water inflow rate kg/s
  265      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  266      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  267      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  268      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  269      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  270      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  271      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  272      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  273      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  274      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  275      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  276      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  278
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  195      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  196      44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  197      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  198      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  199      47 1 1 CONCFE Fe concentration -- simple model kg/m^3
  200      48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  201      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  202      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  203      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
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 204     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 205     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 206     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 207     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 208     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 209     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 210     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 211     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 212     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 213     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 214     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 215     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 216     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 217     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 218     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 219     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 220     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 221     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 222     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 223     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 224     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 225     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 226     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 227     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 228     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 229     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 230     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 231     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 232     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 233     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 234     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 235     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 236     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 237     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 238     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 239     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 240     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 241     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 242     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 243     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 244     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 245     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 246     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 247     95 0 0 H2OFLOWIN Water inflow rate kg/s
 248     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 249     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 250     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 251     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 252     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 253     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 254     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 255     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 256     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 257     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 258     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 259     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 261
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  711     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  712     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  713     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  714     ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  694     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
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  695    26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  696    27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  697    ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  844    39 CAVITY_5
  846    Special material index numbers:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  828    Special material index numbers:
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  860    where IC's will be reset (NMATRESET) = 5
  861    Material type indexes of material regions
  862    where IC's will be reset (MATRESET) = 7 8 9 10 39
  864    Borehole matl index number (MAT_BOREHOLE) = 0
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  842    where IC's will be reset (NMATRESET) = 4
  843    Material type indexes of material regions
  844    where IC's will be reset (MATRESET) = 7 8 9 10
  846    Borehole matl index number (MAT_BOREHOLE) = 0
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  869    instead of Input IC's for the Cavities
  870    [0=No, 1=Yes] (ICWASTE) = 1
  872    Uniform Cavity Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  873    Uniform Cavity Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  874    Uniform Cavity Region 3 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  875    Uniform Cavity Region 4 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  876    Uniform Cavity Region 5 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  877    Uniform Cavity Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  878    Uniform Cavity Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  879    Uniform Cavity Region 3 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  880    Uniform Cavity Region 4 Startup Brine Satn (SOWASTEIC) = 2.50000E-01
  881    Uniform Cavity Region 5 Startup Brine Satn (SOWASTEIC) = 2.00000E-01
  883    ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  851    instead of Input IC's for the Waste
  852    [0=No, 1=Yes] (ICWASTE) = 1
  854    Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  855    Uniform Waste Region 2 Startup Pressure (POWASTEIC) = 1.01325E+05 Pa
  856    Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  857    Uniform Waste Region 2 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  859    ------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
  949    39 7.00E-01 0.00E+00 0.00E+00 1.00E-10 1.00E-10 1.00E-10 1.00E+00 0.00E+00 0.00E+00
1.01E+05 1.00E+08 0.00E+00 0.00E+00 4 1
  950    TOL = 1.0000E-02
  951    SOCEFFMIN = 1.0000E-03
  953    Fracture model will be used? (KFRACTURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
  926    Fracture model will be used? (KFRACTURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1086    Intrinsic reaction rate constants? (LINTRIN): F
 1088    Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1059    Reaction rate constants (RK):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1096     MgO hydration reaction rate constants:
 1097     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
 1098     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
 1100     Gas generation factors for biodegradation reaction:
 1101     Waste Area # 1
 1102     H2/H2S production (RXH2S) = 3.397000E-01
 1103     CO2 production (RXCO2) = 0.000000E+00
 1105     Gas generation factors for biodegradation reaction:
 1106     Waste Area # 2
 1107     H2/H2S production (RXH2S) = 3.397000E-01
 1108     CO2 production (RXCO2) = 0.000000E+00
 1110     Saturation cutoff value (SOCMIN): 0.000000E+00
 1112     Stoichiometric coeff's for Rxn 1:
 1113     H2 coefficient = 1.331600E+00
 1114     H2O coefficient = -1.336800E+00
 1115     Fe coefficient = -1.000000E+00
 1116     Bio coefficient = 0.000000E+00
 1117     Fe(OH)2 coefficient = 0.000000E+00
 1118     FeS coefficient = 0.000000E+00
 1119     MgO coefficient = 0.000000E+00
 1120     Mg(OH)2 coefficient = 0.000000E+00
 1121     MgCO3 coefficient = 0.000000E+00
 1123     Stoichiometric coeff's for Rxn 2:
 1124     H2 coefficient = 3.397000E-01
 1125     H2O coefficient = 0.000000E+00
 1126     Fe coefficient = 0.000000E+00
 1127     Bio coefficient = -1.000000E+00
 1128     Fe(OH)2 coefficient = 0.000000E+00
 1129     FeS coefficient = 0.000000E+00
 1130     MgO coefficient = 0.000000E+00
 1131     Mg(OH)2 coefficient = 0.000000E+00
 1132     MgCO3 coefficient = 0.000000E+00
 1134     Stoichiometric coeff's for Rxn 3:
 1135     H2 coefficient = 0.000000E+00
 1136     H2O coefficient = 0.000000E+00
 1137     Fe coefficient = 0.000000E+00
 1138     Bio coefficient = 0.000000E+00
 1139     Fe(OH)2 coefficient = 0.000000E+00
 1140     FeS coefficient = 0.000000E+00
 1141     MgO coefficient = 0.000000E+00
 1142     Mg(OH)2 coefficient = 0.000000E+00
 1143     MgCO3 coefficient = 0.000000E+00
 1145     Stoichiometric coeff's for Rxn 4:
 1146     H2 coefficient = 0.000000E+00
 1147     H2O coefficient = 0.000000E+00
 1148     Fe coefficient = 0.000000E+00
 1149     Bio coefficient = 0.000000E+00
 1150     Fe(OH)2 coefficient = 0.000000E+00
 1151     FeS coefficient = 0.000000E+00
 1152     MgO coefficient = 0.000000E+00
 1153     Mg(OH)2 coefficient = 0.000000E+00
 1154     MgCO3 coefficient = 0.000000E+00
 1156     Stoichiometric coeff's for Rxn 5:
 1157     H2 coefficient = 0.000000E+00
 1158     H2O coefficient = 0.000000E+00
 1159     Fe coefficient = 0.000000E+00
 1160     Bio coefficient = 0.000000E+00
 1161     Fe(OH)2 coefficient = 0.000000E+00
 1162     FeS coefficient = 0.000000E+00
 1163     MgO coefficient = 0.000000E+00
 1164     Mg(OH)2 coefficient = 0.000000E+00
 1165     MgCO3 coefficient = 0.000000E+00
 1167     Stoichiometric coeff's for Rxn 6:
 1168     H2 coefficient = 0.000000E+00
 1169     H2O coefficient = 0.000000E+00
 1170     Fe coefficient = 0.000000E+00
 1171     Bio coefficient = 0.000000E+00
 1172     Fe(OH)2 coefficient = 0.000000E+00
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 1173     FeS coefficient = 0.000000E+00
 1174     MgO coefficient = 0.000000E+00
 1175     Mg(OH)2 coefficient = 0.000000E+00
 1176     MgCO3 coefficient = 0.000000E+00
 1178     Stoichiometric coeff's for Rxn 7:
 1179     H2 coefficient = 0.000000E+00
 1180     H2O coefficient = 0.000000E+00
 1181     Fe coefficient = 0.000000E+00
 1182     Bio coefficient = 0.000000E+00
 1183     Fe(OH)2 coefficient = 0.000000E+00
 1184     FeS coefficient = 0.000000E+00
 1185     MgO coefficient = 0.000000E+00
 1186     Mg(OH)2 coefficient = 0.000000E+00
 1187     MgCO3 coefficient = 0.000000E+00
 1189     Wicking term (SATWICK) = 0.000000E+00
 1190     Humid rates to be smoothed? (LARXN) = T
 1191     Concentration rates to be smoothed? (LARXN2) = F
 1192     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1194     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1067     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
 1068     Gas coefficient = 1.331600E+00
 1069     H2O coefficient = 1.336800E+00
 1070     Fe coefficient = 1.000000E+00
 1072     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
 1073     Gas coefficient = 3.397000E-01
 1074     H2O coefficient = 0.000000E+00
 1075     Bio coefficient = 1.000000E+00
 1077     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1200     Molecular weights (WM):
 1201     Fe(OH)2: 8.9862E-02 kg/mol
 1202     FeS: 8.7900E-02 kg/mol
 1203     MgO: 4.0304E-02 kg/mol
 1204     Mg(OH)2: 5.8320E-02 kg/mol
 1205     MgCO3: 8.4314E-02 kg/mol
 1207     Densities (DEN(1-4)):
 1208     Fe: 7.8700E+03 kg/m3
 1209     Fe(OH)2: 3.4000E+03 kg/m3
 1210     FeS: 4.7000E+03 kg/m3
 1211     Bio: 1.1000E+03 kg/m3
 1213     Densities (DEN(5-8)):
 1214     MgO: 3.6000E+03 kg/m3
 1215     Mg(OH)2: 2.3700E+03 kg/m3
 1216     MgCO3: 3.0500E+03 kg/m3
 1217     SALT: 2.1700E+03 kg/m3
 1219     Will creep closure be used (CLOSURE): T
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1083     Wicking term (SATWICK) = 0.000000E+00
 1084     Humid rates to be smoothed? (LARXN) = T
 1085     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
 1087     Will creep closure be used (CLOSURE): T
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1233     PHIUPPER = Upper porosity limit in permeability-porosity expression
 1234     PHILOWER = Lower porosity limit in permeability-porosity expression
 1235     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (MODPERM) [-]
 1236     Refer to the Closure LOOK-UP TABLE DATA FILE for values
 1237     4 1.480000E+07 3.155700E+12 1 F
 1238     MODPERM Parameters
 1239     Model Number (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1240     4 5.584700E-12 0.000000E+00
 1242     Number of materials using closure (NMATCLOS) = 2
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1101     Model Number (PLITHO) [Pa] (TIME_CLOSOFF) [s] (CLOSPERMFACT) [m^2] (CLOSPERMEXP) [-]
 1102     Refer to the Closure LOOK-UP TABLE DATA FILE for values
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 1103     4 1.480000E+07 3.155700E+12 5.584700E-12 0.000000E+00
 1105     Number of materials using closure (NMATCLOS) = 2
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1260     *** Cavity Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1263     *** Cavity Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1266     *** Cavity Region 3 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1269     *** Cavity Region 4 is initialized with PO & SO = 1.013250E+05 2.500000E-01
 1272     *** Cavity Region 5 is initialized with PO & SO = 1.013250E+05 2.000000E-01
 1276
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1123     *** Waste Region 1 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1126     *** Waste Region 2 is initialized with PO & SO = 1.013250E+05 0.000000E+00
 1130
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1300     57 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1301     58 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1303     CAMCON Global Variable Units Conv
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1154     47 FECONC Fe concentration -- simple model kg/m^3 1.000000E+00
 1155     48 CELLCONC C6-H10-O5 concentration -- simple model kg/m^3 1.000000E+00
 1157     CAMCON Global Variable Units Conv
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 1626     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1627     CPU Time (total for run) = 20.55 sec = 0.00571 hr
 1628     ************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2450     Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
 2452     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 ( 23.69 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 2.563388E-02 days
 2456     Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 ( 24.43 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.725148E+00 days
 2459     Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 ( 28.34 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 3.246068E+02 days
 2462     Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 3.684633E+03 days
 2465     Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 ( 39.49 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.822136E+04 days
 2468     Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 ( 46.11 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652539E+04 days
 2471     Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 ( 57.28 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.658477E+04 days
 2474     Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 ( 61.10 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.666991E+04 days
 2477     Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 ( 63.25 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.679175E+04 days
 2480     Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 ( 66.62 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.923507E+04 days
 2483     Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 ( 72.33 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 4.281917E+04 days
 2486     Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 ( 80.54 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 9.658391E+04 days
 2489     Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 ( 89.44 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.853715E+05 days
 2492     Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 ( 102.96 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.865644E+05 days
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2495   Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 ( 110.86 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498   Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 ( 116.96 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501   Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 ( 125.23 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504   Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 ( 136.43 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507   Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 ( 141.93 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510   Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 ( 148.17 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513   Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 ( 156.50 sec) Binary
2515   Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516   Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2518   Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519   Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 ( 169.07 sec) Binary
2521   Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522   Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 ( 175.42 sec) Binary
2524   Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525   Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 ( 180.42 sec) Binary
2527   Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528   Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 ( 186.73 sec) Binary
2530   Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531   Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 ( 195.08 sec) Binary
2533   Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534   Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 ( 201.38 sec) Binary
2536   Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537   Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 ( 206.10 sec) Binary
2539   Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540   Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 ( 211.22 sec) Binary
2542   Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543   Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 ( 218.38 sec) Binary
2545   Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546   Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 ( 220.37 sec) Binary
2548   Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549   Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 ( 223.07 sec) Binary
2551   Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552   Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 ( 229.45 sec) Binary
2554   Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555   Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 ( 235.24 sec) Binary
2557   Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558   Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 ( 242.00 sec) Binary
2560   Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561   Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 ( 249.80 sec) Binary
2563   Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564   Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 ( 255.50 sec) Binary
2566   Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2567   Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 ( 263.10 sec) Binary
2569   Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570   Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
2572   Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573   Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 ( 279.53 sec) Binary
2575   Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576   Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 ( 287.51 sec) Binary
2578   Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579   Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
2581   Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582   Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 ( 306.63 sec) Binary
2584   Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585   Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 ( 315.09 sec) Binary
2587   Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588   Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2590   Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591   Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 ( 332.93 sec) Binary
2593   Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594   Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 ( 340.42 sec) Binary
2596   Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597   Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 ( 349.85 sec) Binary
2599   Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2600   Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 ( 359.12 sec) Binary
2602   Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2603   Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
2605   Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2606   Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 ( 373.07 sec) Binary
2608   Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
```

```
2609     Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
2611     Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2612     Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 ( 389.18 sec) Binary
2614     Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2615     Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 ( 395.31 sec) Binary
2617     Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2618     Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620     Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2621     Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 ( 412.44 sec) Binary
2623     Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2624     Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 ( 420.87 sec) Binary
2626     Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2627     Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 ( 424.71 sec) Binary
2629     Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2630     Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 ( 428.91 sec) Binary
2632     Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2633     Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 ( 433.99 sec) Binary
2635     Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2636     Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 ( 438.18 sec) Binary
2638     Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2639     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
2642     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
2304     Date: 05/18/06 Time: 10:59:35 CPU Time: 0 0: 0:20.56 ( 20.56 sec) ASCII
2306     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
2307     Date: 05/18/06 Time: 10:59:35 CPU Time: 0 0: 0:20.57 ( 20.57 sec) Binary
2309     Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2310     Date: 05/18/06 Time: 10:59:36 CPU Time: 0 0: 0:21.21 ( 21.21 sec) Binary
2312     Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2313     Date: 05/18/06 Time: 10:59:39 CPU Time: 0 0: 0:24.37 ( 24.37 sec) Binary
2315     Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2316     Date: 05/18/06 Time: 10:59:43 CPU Time: 0 0: 0:27.83 ( 27.83 sec) Binary
2318     Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2319     Date: 05/18/06 Time: 10:59:48 CPU Time: 0 0: 0:33.43 ( 33.43 sec) Binary
2321     Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2322     Date: 05/18/06 Time: 10:59:53 CPU Time: 0 0: 0:38.59 ( 38.59 sec) Binary
2324     Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2325     Date: 05/18/06 Time: 11:00:02 CPU Time: 0 0: 0:47.30 ( 47.30 sec) Binary
2327     Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2328     Date: 05/18/06 Time: 11:00:05 CPU Time: 0 0: 0:50.30 ( 50.30 sec) Binary
2330     Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2331     Date: 05/18/06 Time: 11:00:07 CPU Time: 0 0: 0:52.06 ( 52.06 sec) Binary
2333     Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2334     Date: 05/18/06 Time: 11:00:10 CPU Time: 0 0: 0:54.69 ( 54.69 sec) Binary
2336     Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2337     Date: 05/18/06 Time: 11:00:14 CPU Time: 0 0: 0:59.01 ( 59.01 sec) Binary
2339     Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2340     Date: 05/18/06 Time: 11:00:21 CPU Time: 0 0: 1: 5.47 ( 65.47 sec) Binary
2342     Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2343     Date: 05/18/06 Time: 11:00:28 CPU Time: 0 0: 1:12.56 ( 72.56 sec) Binary
2345     Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2346     Date: 05/18/06 Time: 11:00:39 CPU Time: 0 0: 1:24.02 ( 84.02 sec) Binary
2348     Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2349     Date: 05/18/06 Time: 11:00:46 CPU Time: 0 0: 1:31.06 ( 91.06 sec) Binary
2351     Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2352     Date: 05/18/06 Time: 11:00:51 CPU Time: 0 0: 1:36.41 ( 96.41 sec) Binary
2354     Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2355     Date: 05/18/06 Time: 11:00:59 CPU Time: 0 0: 1:43.63 ( 103.63 sec) Binary
2357     Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2358     Date: 05/18/06 Time: 11:01:08 CPU Time: 0 0: 1:52.97 ( 112.97 sec) Binary
2360     Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2361     Date: 05/18/06 Time: 11:01:13 CPU Time: 0 0: 1:57.50 ( 117.50 sec) Binary
2363     Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2364     Date: 05/18/06 Time: 11:01:18 CPU Time: 0 0: 2: 2.49 ( 122.49 sec) Binary
2366     Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2367     Date: 05/18/06 Time: 11:01:24 CPU Time: 0 0: 2: 9.11 ( 129.11 sec) Binary
2369     Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2370     Date: 05/18/06 Time: 11:01:31 CPU Time: 0 0: 2:15.91 ( 135.91 sec) Binary
2372     Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2373     Date: 05/18/06 Time: 11:01:34 CPU Time: 0 0: 2:19.05 ( 139.05 sec) Binary
2375     Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2376     Date: 05/18/06 Time: 11:01:39 CPU Time: 0 0: 2:24.18 ( 144.18 sec) Binary
2378     Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2379     Date: 05/18/06 Time: 11:01:44 CPU Time: 0 0: 2:28.22 ( 148.22 sec) Binary
2381     Time Step No. = 620 Elapsed Time = 2.855709E+05 days
```

```
2382    Date: 05/18/06 Time: 11:01:49 CPU Time: 0 0: 2:33.26 ( 153.26 sec) Binary
2384    Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2385    Date: 05/18/06 Time: 11:01:55 CPU Time: 0 0: 2:39.85 ( 159.85 sec) Binary
2387    Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2388    Date: 05/18/06 Time: 11:02:00 CPU Time: 0 0: 2:44.86 ( 164.86 sec) Binary
2390    Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2391    Date: 05/18/06 Time: 11:02:04 CPU Time: 0 0: 2:48.63 ( 168.63 sec) Binary
2393    Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2394    Date: 05/18/06 Time: 11:02:08 CPU Time: 0 0: 2:52.67 ( 172.67 sec) Binary
2396    Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2397    Date: 05/18/06 Time: 11:02:14 CPU Time: 0 0: 2:58.34 ( 178.34 sec) Binary
2399    Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2400    Date: 05/18/06 Time: 11:02:15 CPU Time: 0 0: 2:59.92 ( 179.92 sec) Binary
2402    Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2403    Date: 05/18/06 Time: 11:02:17 CPU Time: 0 0: 3: 2.05 ( 182.05 sec) Binary
2405    Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2406    Date: 05/18/06 Time: 11:02:22 CPU Time: 0 0: 3: 7.08 ( 187.08 sec) Binary
2408    Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2409    Date: 05/18/06 Time: 11:02:27 CPU Time: 0 0: 3:11.64 ( 191.64 sec) Binary
2411    Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2412    Date: 05/18/06 Time: 11:02:32 CPU Time: 0 0: 3:16.98 ( 196.98 sec) Binary
2414    Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2415    Date: 05/18/06 Time: 11:02:39 CPU Time: 0 0: 3:23.19 ( 203.19 sec) Binary
2417    Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2418    Date: 05/18/06 Time: 11:02:43 CPU Time: 0 0: 3:27.70 ( 207.70 sec) Binary
2420    Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2421    Date: 05/18/06 Time: 11:02:49 CPU Time: 0 0: 3:33.73 ( 213.73 sec) Binary
2423    Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2424    Date: 05/18/06 Time: 11:02:56 CPU Time: 0 0: 3:40.23 ( 220.23 sec) Binary
2426    Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2427    Date: 05/18/06 Time: 11:03:02 CPU Time: 0 0: 3:46.77 ( 226.77 sec) Binary
2429    Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2430    Date: 05/18/06 Time: 11:03:09 CPU Time: 0 0: 3:53.07 ( 233.07 sec) Binary
2432    Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2433    Date: 05/18/06 Time: 11:03:16 CPU Time: 0 0: 4: 0.36 ( 240.36 sec) Binary
2435    Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2436    Date: 05/18/06 Time: 11:03:24 CPU Time: 0 0: 4: 8.15 ( 248.15 sec) Binary
2438    Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2439    Date: 05/18/06 Time: 11:03:30 CPU Time: 0 0: 4:14.83 ( 254.83 sec) Binary
2441    Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2442    Date: 05/18/06 Time: 11:03:38 CPU Time: 0 0: 4:22.01 ( 262.01 sec) Binary
2444    Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2445    Date: 05/18/06 Time: 11:03:45 CPU Time: 0 0: 4:28.96 ( 268.96 sec) Binary
2447    Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2448    Date: 05/18/06 Time: 11:03:50 CPU Time: 0 0: 4:34.92 ( 274.92 sec) Binary
2450    Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2451    Date: 05/18/06 Time: 11:03:58 CPU Time: 0 0: 4:42.39 ( 282.39 sec) Binary
2453    Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
2454    Date: 05/18/06 Time: 11:04:05 CPU Time: 0 0: 4:49.71 ( 289.71 sec) Binary
2456    Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
2457    Date: 05/18/06 Time: 11:04:10 CPU Time: 0 0: 4:54.43 ( 294.43 sec) Binary
2459    Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
2460    Date: 05/18/06 Time: 11:04:16 CPU Time: 0 0: 5: 0.83 ( 300.83 sec) Binary
2462    Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
2463    Date: 05/18/06 Time: 11:04:22 CPU Time: 0 0: 5: 6.74 ( 306.74 sec) Binary
2465    Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
2466    Date: 05/18/06 Time: 11:04:29 CPU Time: 0 0: 5:13.54 ( 313.54 sec) Binary
2468    Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
2469    Date: 05/18/06 Time: 11:04:34 CPU Time: 0 0: 5:18.39 ( 318.39 sec) Binary
2471    Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
2472    Date: 05/18/06 Time: 11:04:41 CPU Time: 0 0: 5:25.07 ( 325.07 sec) Binary
2474    Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
2475    Date: 05/18/06 Time: 11:04:47 CPU Time: 0 0: 5:31.63 ( 331.63 sec) Binary
2477    Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
2478    Date: 05/18/06 Time: 11:04:54 CPU Time: 0 0: 5:37.96 ( 337.96 sec) Binary
2480    Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
2481    Date: 05/18/06 Time: 11:04:57 CPU Time: 0 0: 5:40.88 ( 340.88 sec) Binary
2483    Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
2484    Date: 05/18/06 Time: 11:05:00 CPU Time: 0 0: 5:44.04 ( 344.04 sec) Binary
2486    Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
2487    Date: 05/18/06 Time: 11:05:04 CPU Time: 0 0: 5:47.85 ( 347.85 sec) Binary
2489    Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
2490    Date: 05/18/06 Time: 11:05:07 CPU Time: 0 0: 5:51.02 ( 351.02 sec) Binary
2492    Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
2493    Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.18 ( 354.18 sec) Binary
2496    Restart information has been written to I/O unit 2 in DISKW, file name:
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2658     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 2659     CPU Time (total for run) = 442.72 sec = 0.12298 hr
 2660    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 2512     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 2513     CPU Time (total for run) = 354.45 sec = 0.09846 hr
 2514    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 3336     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
 3338     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
 3344     ****************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3347     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
 3190     Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.47 ( 354.47 sec) ASCII
 3192     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3193     Date: 05/18/06 Time: 11:05:10 CPU Time: 0 0: 5:54.47 ( 354.47 sec) Binary
 3198     ****************************************************************************
 3199     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3200     * Completed: 05/18/06 at 11:05:10 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3201     ****************************************************************************
************

Number of difference sections found: 23
Number of difference records found: 367

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_VMS82_V500_ES47_TEST7_R020.OUT;1
```

A.7.5 Test Case 7: Output Difference Files, BF2_QB0600_ES40_TEST7_Vnnn_OUT.DIF and BF2_QB0600_ES45_TEST7_Vnnn_OUT.DIF (where nnn = 1 to 20)

BF2_QB0600_ES40_TEST7_V001_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
    3     ** Begun on: 02/14/07 at 10:33:47 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
    3     ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
   62    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
   62    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_CLOSURE.DAT;1
   67    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
```

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   67    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   72    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   72    ************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.SUM;1
   77    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
   77    ************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.BIN;1
   82    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
   82    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
   86    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.ROT;1
   87    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   86    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
   87    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
 1772    CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773    CPU Time (total for run) = 38.49 sec = 0.01069 hr
 1774   *************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1772    CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773    CPU Time (total for run) = 28.78 sec = 0.00799 hr
 1774   *************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
 2450    Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 0:38.50 ( 38.50 sec) ASCII
 2452    Time Step No. = 163 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 0:38.51 ( 38.51 sec) Binary
 2455    Time Step No. = 180 Elapsed Time = 2.119576E-04 days
 2456    Date: 02/14/07 Time: 10:34:30 CPU Time: 0 0: 0:43.30 ( 43.30 sec) Binary
 2458    Time Step No. = 200 Elapsed Time = 1.880303E-02 days
 2459    Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 0:47.13 ( 47.13 sec) Binary
 2461    Time Step No. = 220 Elapsed Time = 1.631321E+00 days
 2462    Date: 02/14/07 Time: 10:34:38 CPU Time: 0 0: 0:51.23 ( 51.23 sec) Binary
 2464    Time Step No. = 240 Elapsed Time = 2.774403E+01 days
 2465    Date: 02/14/07 Time: 10:34:43 CPU Time: 0 0: 0:55.78 ( 55.78 sec) Binary
 2467    Time Step No. = 260 Elapsed Time = 4.892922E+02 days
 2468    Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1: 1.74 ( 61.74 sec) Binary
 2470    Time Step No. = 280 Elapsed Time = 4.026427E+03 days
 2471    Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 1: 9.95 ( 69.95 sec) Binary
 2473    Time Step No. = 300 Elapsed Time = 1.166868E+04 days
 2474    Date: 02/14/07 Time: 10:35:07 CPU Time: 0 0: 1:19.85 ( 79.85 sec) Binary
 2476    Time Step No. = 320 Elapsed Time = 2.296322E+04 days
 2477    Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 1:28.17 ( 88.17 sec) Binary
 2479    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2480    Date: 02/14/07 Time: 10:35:32 CPU Time: 0 0: 1:45.28 ( 105.28 sec) Binary
 2482    Time Step No. = 360 Elapsed Time = 3.652431E+04 days
 2483    Date: 02/14/07 Time: 10:35:36 CPU Time: 0 0: 1:48.97 ( 108.97 sec) Binary
 2485    Time Step No. = 380 Elapsed Time = 3.652431E+04 days
 2486    Date: 02/14/07 Time: 10:35:40 CPU Time: 0 0: 1:52.91 ( 112.91 sec) Binary
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2488   Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489   Date: 02/14/07 Time: 10:35:44 CPU Time: 0 0: 1:57.29 ( 117.29 sec) Binary
2491   Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492   Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2: 1.24 ( 121.24 sec) Binary
2494   Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495   Date: 02/14/07 Time: 10:35:53 CPU Time: 0 0: 2: 5.64 ( 125.64 sec) Binary
2497   Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498   Date: 02/14/07 Time: 10:35:56 CPU Time: 0 0: 2: 8.62 ( 128.62 sec) Binary
2500   Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501   Date: 02/14/07 Time: 10:36:01 CPU Time: 0 0: 2:14.49 ( 134.49 sec) Binary
2503   Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504   Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 2:24.82 ( 144.82 sec) Binary
2506   Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507   Date: 02/14/07 Time: 10:36:22 CPU Time: 0 0: 2:35.32 ( 155.32 sec) Binary
2509   Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510   Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 2:47.91 ( 167.91 sec) Binary
2512   Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513   Date: 02/14/07 Time: 10:36:48 CPU Time: 0 0: 3: 0.54 ( 180.54 sec) Binary
2515   Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516   Date: 02/14/07 Time: 10:36:53 CPU Time: 0 0: 3: 5.70 ( 185.70 sec) Binary
2518   Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519   Date: 02/14/07 Time: 10:37:00 CPU Time: 0 0: 3:13.34 ( 193.34 sec) Binary
2521   Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522   Date: 02/14/07 Time: 10:37:12 CPU Time: 0 0: 3:25.00 ( 205.00 sec) Binary
2524   Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525   Date: 02/14/07 Time: 10:37:16 CPU Time: 0 0: 3:28.77 ( 208.77 sec) Binary
2527   Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528   Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 3:33.59 ( 213.59 sec) Binary
2530   Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531   Date: 02/14/07 Time: 10:37:31 CPU Time: 0 0: 3:44.37 ( 224.37 sec) Binary
2533   Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534   Date: 02/14/07 Time: 10:37:37 CPU Time: 0 0: 3:50.40 ( 230.40 sec) Binary
2536   Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537   Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 4: 0.47 ( 240.47 sec) Binary
2539   Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540   Date: 02/14/07 Time: 10:38:03 CPU Time: 0 0: 4:15.83 ( 255.83 sec) Binary
2542   Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543   Date: 02/14/07 Time: 10:38:14 CPU Time: 0 0: 4:26.86 ( 266.86 sec) Binary
2545   Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546   Date: 02/14/07 Time: 10:38:23 CPU Time: 0 0: 4:35.39 ( 275.39 sec) Binary
2548   Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549   Date: 02/14/07 Time: 10:38:27 CPU Time: 0 0: 4:39.68 ( 279.68 sec) Binary
2551   Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552   Date: 02/14/07 Time: 10:38:38 CPU Time: 0 0: 4:50.57 ( 290.57 sec) Binary
2554   Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555   Date: 02/14/07 Time: 10:38:47 CPU Time: 0 0: 4:59.36 ( 299.36 sec) Binary
2557   Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558   Date: 02/14/07 Time: 10:38:58 CPU Time: 0 0: 5:10.81 ( 310.81 sec) Binary
2560   Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561   Date: 02/14/07 Time: 10:39:06 CPU Time: 0 0: 5:18.96 ( 318.96 sec) Binary
2563   Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564   Date: 02/14/07 Time: 10:39:16 CPU Time: 0 0: 5:28.20 ( 328.20 sec) Binary
2566   Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567   Date: 02/14/07 Time: 10:39:22 CPU Time: 0 0: 5:33.58 ( 333.58 sec) Binary
2569   Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570   Date: 02/14/07 Time: 10:39:32 CPU Time: 0 0: 5:44.29 ( 344.29 sec) Binary
2572   Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573   Date: 02/14/07 Time: 10:39:40 CPU Time: 0 0: 5:51.78 ( 351.78 sec) Binary
2575   Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576   Date: 02/14/07 Time: 10:39:48 CPU Time: 0 0: 5:59.20 ( 359.20 sec) Binary
2578   Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579   Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 6: 5.02 ( 365.02 sec) Binary
2581   Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582   Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 6:15.51 ( 375.51 sec) Binary
2584   Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585   Date: 02/14/07 Time: 10:40:15 CPU Time: 0 0: 6:26.84 ( 386.84 sec) Binary
2587   Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588   Date: 02/14/07 Time: 10:40:24 CPU Time: 0 0: 6:35.40 ( 395.40 sec) Binary
2590   Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591   Date: 02/14/07 Time: 10:40:32 CPU Time: 0 0: 6:43.96 ( 403.96 sec) Binary
2593   Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594   Date: 02/14/07 Time: 10:40:43 CPU Time: 0 0: 6:55.07 ( 415.07 sec) Binary
2596   Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597   Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 7: 2.50 ( 422.50 sec) Binary
2599   Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600   Date: 02/14/07 Time: 10:40:58 CPU Time: 0 0: 7: 9.74 ( 429.74 sec) Binary
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2602    Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603    Date: 02/14/07 Time: 10:41:11 CPU Time: 0 0: 7:22.89 ( 442.89 sec) Binary
2605    Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606    Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 7:30.33 ( 450.33 sec) Binary
2608    Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609    Date: 02/14/07 Time: 10:41:27 CPU Time: 0 0: 7:38.44 ( 458.44 sec) Binary
2611    Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612    Date: 02/14/07 Time: 10:41:43 CPU Time: 0 0: 7:54.77 ( 474.77 sec) Binary
2614    Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615    Date: 02/14/07 Time: 10:41:49 CPU Time: 0 0: 7:59.95 ( 479.95 sec) Binary
2617    Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618    Date: 02/14/07 Time: 10:41:57 CPU Time: 0 0: 8: 8.35 ( 488.35 sec) Binary
2620    Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621    Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 8:18.78 ( 498.78 sec) Binary
2623    Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624    Date: 02/14/07 Time: 10:42:14 CPU Time: 0 0: 8:24.92 ( 504.92 sec) Binary
2626    Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
2627    Date: 02/14/07 Time: 10:42:22 CPU Time: 0 0: 8:33.15 ( 513.15 sec) Binary
2629    Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
2630    Date: 02/14/07 Time: 10:42:30 CPU Time: 0 0: 8:40.55 ( 520.55 sec) Binary
2632    Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
2633    Date: 02/14/07 Time: 10:42:42 CPU Time: 0 0: 8:52.34 ( 532.34 sec) Binary
2635    Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
2636    Date: 02/14/07 Time: 10:42:53 CPU Time: 0 0: 9: 3.32 ( 543.32 sec) Binary
2638    Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
2639    Date: 02/14/07 Time: 10:43:02 CPU Time: 0 0: 9:13.05 ( 553.05 sec) Binary
2641    Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
2642    Date: 02/14/07 Time: 10:43:11 CPU Time: 0 0: 9:21.70 ( 561.70 sec) Binary
2644    Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
2645    Date: 02/14/07 Time: 10:43:19 CPU Time: 0 0: 9:29.28 ( 569.28 sec) Binary
2647    Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
2648    Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 9:36.78 ( 576.78 sec) Binary
2651    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
2450    Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) ASCII
2452    Time Step No. = 163 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) Binary
2455    Time Step No. = 180 Elapsed Time = 2.119576E-04 days
2456    Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 ( 32.42 sec) Binary
2458    Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459    Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 ( 35.33 sec) Binary
2461    Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462    Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
2464    Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465    Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 ( 41.89 sec) Binary
2467    Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468    Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 ( 46.37 sec) Binary
2470    Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471    Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 ( 52.49 sec) Binary
2473    Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474    Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 ( 59.93 sec) Binary
2476    Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477    Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 ( 66.17 sec) Binary
2479    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480    Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 ( 78.93 sec) Binary
2482    Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483    Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 ( 81.71 sec) Binary
2485    Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486    Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 ( 84.68 sec) Binary
2488    Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489    Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 ( 87.96 sec) Binary
2491    Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492    Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 ( 90.92 sec) Binary
2494    Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495    Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 ( 94.09 sec) Binary
2497    Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498    Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 ( 96.32 sec) Binary
2500    Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501    Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 ( 100.74 sec) Binary
2503    Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504    Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 ( 108.09 sec) Binary
2506    Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507    Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 ( 115.62 sec) Binary
2509    Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510    Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 ( 124.66 sec) Binary
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2512  Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513  Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 ( 133.73 sec) Binary
2515  Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516  Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 ( 137.44 sec) Binary
2518  Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519  Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 ( 142.90 sec) Binary
2521  Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522  Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 ( 151.20 sec) Binary
2524  Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525  Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 ( 153.91 sec) Binary
2527  Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528  Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 ( 157.38 sec) Binary
2530  Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531  Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2533  Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534  Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 ( 169.47 sec) Binary
2536  Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537  Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 ( 176.71 sec) Binary
2539  Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540  Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 ( 187.76 sec) Binary
2542  Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543  Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 ( 195.69 sec) Binary
2545  Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546  Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 ( 201.79 sec) Binary
2548  Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549  Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 ( 205.09 sec) Binary
2551  Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552  Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 ( 213.60 sec) Binary
2554  Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555  Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 ( 220.40 sec) Binary
2557  Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558  Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 ( 229.17 sec) Binary
2560  Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561  Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 ( 235.48 sec) Binary
2563  Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564  Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 ( 242.64 sec) Binary
2566  Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567  Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 ( 246.78 sec) Binary
2569  Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570  Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 ( 255.03 sec) Binary
2572  Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573  Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 ( 260.82 sec) Binary
2575  Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576  Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 ( 266.54 sec) Binary
2578  Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579  Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 ( 271.04 sec) Binary
2581  Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582  Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 ( 279.14 sec) Binary
2584  Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585  Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 ( 287.84 sec) Binary
2587  Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588  Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 ( 294.49 sec) Binary
2590  Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591  Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 ( 301.09 sec) Binary
2593  Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
2594  Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 ( 309.65 sec) Binary
2596  Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
2597  Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 ( 315.44 sec) Binary
2599  Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
2600  Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 ( 321.08 sec) Binary
2602  Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
2603  Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 ( 331.27 sec) Binary
2605  Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
2606  Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 ( 337.06 sec) Binary
2608  Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
2609  Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 ( 343.20 sec) Binary
2611  Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
2612  Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 ( 355.70 sec) Binary
2614  Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
2615  Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 ( 359.71 sec) Binary
2617  Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
2618  Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 ( 366.05 sec) Binary
2620  Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
2621  Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 ( 373.90 sec) Binary
2623  Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
2624  Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 ( 378.31 sec) Binary
```

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 2626     Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
 2627     Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 ( 384.18 sec) Binary
 2629     Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
 2630     Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 ( 389.48 sec) Binary
 2632     Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
 2633     Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
 2635     Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
 2636     Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
 2638     Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
 2639     Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 ( 412.81 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
 2642     Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 ( 419.54 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
 2645     Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 ( 425.38 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
 2648     Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
 2667     CPU Time (this time step) = 0.35 sec = 0.00010 hr
 2668     CPU Time (total for run) = 583.97 sec = 0.16221 hr
 2669    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 2667     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2668     CPU Time (total for run) = 436.72 sec = 0.12131 hr
 2669    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1
 3345     Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 9:44.00 ( 584.00 sec) ASCII
 3347     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 9:44.00 ( 584.00 sec) Binary
 3353     ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 10:43:33 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3356     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 3345     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
 3347     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
 3353     ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES40_TEST7_V001.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
```

BF2_QB0600_ES40_TEST7_V002_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
    3     ** Begun on: 02/14/07 at 10:33:52 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
    3     ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
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   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
   62     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
   87     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
 1772     CPU Time (this time step) = 0.26 sec = 0.00007 hr
 1773     CPU Time (total for run) = 27.76 sec = 0.00771 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 1772     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 1773     CPU Time (total for run) = 21.05 sec = 0.00585 hr
 1774     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
 2450     Date: 02/14/07 Time: 10:34:20 CPU Time: 0 0: 0:27.78 ( 27.78 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:34:20 CPU Time: 0 0: 0:27.79 ( 27.79 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2456     Date: 02/14/07 Time: 10:34:23 CPU Time: 0 0: 0:31.32 ( 31.32 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2459     Date: 02/14/07 Time: 10:34:28 CPU Time: 0 0: 0:36.40 ( 36.40 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2462     Date: 02/14/07 Time: 10:34:35 CPU Time: 0 0: 0:43.23 ( 43.23 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
 2465     Date: 02/14/07 Time: 10:34:44 CPU Time: 0 0: 0:51.68 ( 51.68 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.652584E+04 days
 2468     Date: 02/14/07 Time: 10:34:58 CPU Time: 0 0: 1: 5.71 ( 65.71 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.659319E+04 days
 2471     Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 1:11.00 ( 71.00 sec) Binary
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2473    Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474    Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 1:13.79 ( 73.79 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477    Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 1:18.13 ( 78.13 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480    Date: 02/14/07 Time: 10:35:17 CPU Time: 0 0: 1:24.81 ( 84.81 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483    Date: 02/14/07 Time: 10:35:29 CPU Time: 0 0: 1:36.45 ( 96.45 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486    Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 1:45.06 ( 105.06 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489    Date: 02/14/07 Time: 10:35:49 CPU Time: 0 0: 1:56.27 ( 116.27 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.652773E+05 days
2492    Date: 02/14/07 Time: 10:35:56 CPU Time: 0 0: 2: 3.59 ( 123.59 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495    Date: 02/14/07 Time: 10:36:03 CPU Time: 0 0: 2:10.82 ( 130.82 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498    Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 2:19.42 ( 139.42 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501    Date: 02/14/07 Time: 10:36:15 CPU Time: 0 0: 2:22.30 ( 142.30 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504    Date: 02/14/07 Time: 10:36:18 CPU Time: 0 0: 2:25.28 ( 145.28 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507    Date: 02/14/07 Time: 10:36:24 CPU Time: 0 0: 2:31.73 ( 151.73 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510    Date: 02/14/07 Time: 10:36:32 CPU Time: 0 0: 2:39.70 ( 159.70 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513    Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 2:45.39 ( 165.39 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516    Date: 02/14/07 Time: 10:36:50 CPU Time: 0 0: 2:57.12 ( 177.12 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519    Date: 02/14/07 Time: 10:36:58 CPU Time: 0 0: 3: 5.26 ( 185.26 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522    Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 3:14.33 ( 194.33 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525    Date: 02/14/07 Time: 10:37:18 CPU Time: 0 0: 3:25.49 ( 205.49 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528    Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 3:32.29 ( 212.29 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531    Date: 02/14/07 Time: 10:37:32 CPU Time: 0 0: 3:39.37 ( 219.37 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534    Date: 02/14/07 Time: 10:37:41 CPU Time: 0 0: 3:48.64 ( 228.64 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537    Date: 02/14/07 Time: 10:37:53 CPU Time: 0 0: 3:59.82 ( 239.82 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540    Date: 02/14/07 Time: 10:37:57 CPU Time: 0 0: 4: 4.26 ( 244.26 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543    Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 4:15.44 ( 255.44 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546    Date: 02/14/07 Time: 10:38:15 CPU Time: 0 0: 4:22.48 ( 262.48 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549    Date: 02/14/07 Time: 10:38:21 CPU Time: 0 0: 4:28.26 ( 268.26 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552    Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 4:37.52 ( 277.52 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555    Date: 02/14/07 Time: 10:38:39 CPU Time: 0 0: 4:45.72 ( 285.72 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558    Date: 02/14/07 Time: 10:38:49 CPU Time: 0 0: 4:56.52 ( 296.52 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561    Date: 02/14/07 Time: 10:39:00 CPU Time: 0 0: 5: 7.28 ( 307.28 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564    Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 5:16.35 ( 316.35 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567    Date: 02/14/07 Time: 10:39:16 CPU Time: 0 0: 5:23.07 ( 323.07 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570    Date: 02/14/07 Time: 10:39:27 CPU Time: 0 0: 5:33.65 ( 333.65 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573    Date: 02/14/07 Time: 10:39:38 CPU Time: 0 0: 5:44.13 ( 344.13 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576    Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 5:51.49 ( 351.49 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579    Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 5:59.66 ( 359.66 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582    Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 6:10.39 ( 370.39 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585    Date: 02/14/07 Time: 10:40:15 CPU Time: 0 0: 6:21.56 ( 381.56 sec) Binary
```

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 2587     Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
 2588     Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 6:33.73 ( 393.73 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
 2591     Date: 02/14/07 Time: 10:40:38 CPU Time: 0 0: 6:44.49 ( 404.49 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
 2594     Date: 02/14/07 Time: 10:40:45 CPU Time: 0 0: 6:51.61 ( 411.61 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
 2597     Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 7: 2.71 ( 422.71 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
 2600     Date: 02/14/07 Time: 10:41:08 CPU Time: 0 0: 7:14.76 ( 434.76 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
 2603     Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 7:25.59 ( 445.59 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
 2606     Date: 02/14/07 Time: 10:41:34 CPU Time: 0 0: 7:39.89 ( 459.89 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
 2609     Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 7:50.65 ( 470.65 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
 2612     Date: 02/14/07 Time: 10:42:03 CPU Time: 0 0: 8: 9.00 ( 489.00 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
 2615     Date: 02/14/07 Time: 10:42:10 CPU Time: 0 0: 8:16.36 ( 496.36 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
 2618     Date: 02/14/07 Time: 10:42:22 CPU Time: 0 0: 8:28.43 ( 508.43 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
 2621     Date: 02/14/07 Time: 10:42:34 CPU Time: 0 0: 8:39.96 ( 519.96 sec) Binary
 2624     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 2450     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2456     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 ( 23.85 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2459     Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 ( 27.82 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2462     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 ( 33.15 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
 2465     Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 ( 39.74 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.652584E+04 days
 2468     Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 ( 49.98 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.659319E+04 days
 2471     Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 ( 53.86 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.666452E+04 days
 2474     Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 ( 55.94 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.678636E+04 days
 2477     Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 ( 59.36 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.918728E+04 days
 2480     Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 ( 64.62 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 5.812157E+04 days
 2483     Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 ( 73.94 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.710952E+04 days
 2486     Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 ( 80.81 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.570947E+05 days
 2489     Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 ( 89.71 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652773E+05 days
 2492     Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 ( 95.50 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.654045E+05 days
 2495     Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 ( 101.29 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.660244E+05 days
 2498     Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 ( 108.20 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.667476E+05 days
 2501     Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 ( 110.51 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.668694E+05 days
 2504     Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 ( 112.90 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.774372E+05 days
 2507     Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 ( 118.07 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.796809E+05 days
 2510     Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 ( 124.43 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.859590E+05 days
 2513     Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 ( 128.84 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 4.871131E+05 days
 2516     Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 ( 137.71 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 4.930836E+05 days
 2519     Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 ( 143.87 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 5.535964E+05 days
 2522     Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 ( 150.76 sec) Binary
```

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2524    Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525    Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 ( 159.44 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528    Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 ( 164.75 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531    Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 ( 170.32 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534    Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 ( 177.55 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537    Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 ( 186.29 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540    Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 ( 189.80 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543    Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 ( 198.46 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546    Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 ( 203.52 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549    Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 ( 207.71 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552    Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 ( 214.43 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555    Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 ( 220.39 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558    Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561    Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 ( 235.91 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564    Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 ( 242.50 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567    Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 ( 247.38 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570    Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 ( 255.04 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573    Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 ( 262.63 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576    Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 ( 268.19 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579    Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582    Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585    Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 ( 291.06 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588    Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 ( 300.29 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591    Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 ( 308.46 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594    Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 ( 313.90 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597    Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 ( 322.32 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600    Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 ( 331.82 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603    Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 ( 340.41 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606    Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 ( 351.68 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609    Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 ( 360.22 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612    Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 ( 374.52 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615    Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 ( 380.25 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618    Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 ( 389.47 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621    Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 ( 398.23 sec) Binary
2624    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
2640    CPU Time (this time step) = 0.44 sec = 0.00012 hr
2641    CPU Time (total for run) = 525.25 sec = 0.14590 hr
2642   *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2640    CPU Time (this time step) = 0.34 sec = 0.00009 hr
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```
 2641     CPU Time (total for run) = 402.27 sec = 0.11174 hr
 2642    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1
 3318     Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 8:45.28 ( 525.28 sec) ASCII
 3320     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3321     Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 8:45.29 ( 525.29 sec) Binary
 3326     ********************************************************************************
 3327     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3328     * Completed: 02/14/07 at 10:42:39 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3329     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 3318     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) ASCII
 3320     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3321     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) Binary
 3326     ********************************************************************************
 3327     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3328     * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3329     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 132

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES40_TEST7_V002.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
```

BF2_QB0600_ES40_TEST7_V003_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
    3     ** Begun on: 02/14/07 at 10:33:57 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
    3     ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.SUM;1
   77     ********************************************************************************
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 30.11 sec = 0.00836 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.62 sec = 0.00656 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 2450     Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 0:30.14 ( 30.14 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 0:30.14 ( 30.14 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.290116E-01 days
 2456     Date: 02/14/07 Time: 10:34:30 CPU Time: 0 0: 0:32.73 ( 32.73 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 7.082940E+00 days
 2459     Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 0:36.77 ( 36.77 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 2.340221E+02 days
 2462     Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 0:41.94 ( 41.94 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.227802E+03 days
 2465     Date: 02/14/07 Time: 10:34:45 CPU Time: 0 0: 0:48.19 ( 48.19 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.172601E+04 days
 2468     Date: 02/14/07 Time: 10:34:55 CPU Time: 0 0: 0:58.02 ( 58.02 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 10:35:12 CPU Time: 0 0: 1:15.13 ( 75.13 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2474     Date: 02/14/07 Time: 10:35:16 CPU Time: 0 0: 1:18.90 ( 78.90 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652436E+04 days
 2477     Date: 02/14/07 Time: 10:35:20 CPU Time: 0 0: 1:23.29 ( 83.29 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.652878E+04 days
 2480     Date: 02/14/07 Time: 10:35:25 CPU Time: 0 0: 1:27.75 ( 87.75 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.664309E+04 days
 2483     Date: 02/14/07 Time: 10:35:32 CPU Time: 0 0: 1:34.70 ( 94.70 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.666734E+04 days
 2486     Date: 02/14/07 Time: 10:35:34 CPU Time: 0 0: 1:36.98 ( 96.98 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.683266E+04 days
 2489     Date: 02/14/07 Time: 10:35:39 CPU Time: 0 0: 1:42.00 ( 102.00 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 4.360968E+04 days
 2492     Date: 02/14/07 Time: 10:35:45 CPU Time: 0 0: 1:47.71 ( 107.71 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.385826E+05 days
 2495     Date: 02/14/07 Time: 10:35:57 CPU Time: 0 0: 2: 0.21 ( 120.21 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.471271E+05 days
 2498     Date: 02/14/07 Time: 10:36:10 CPU Time: 0 0: 2:13.33 ( 133.33 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 1.527317E+05 days
 2501     Date: 02/14/07 Time: 10:36:19 CPU Time: 0 0: 2:21.97 ( 141.97 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 1.710125E+05 days
 2504     Date: 02/14/07 Time: 10:36:30 CPU Time: 0 0: 2:32.70 ( 152.70 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 2.573034E+05 days
 2507     Date: 02/14/07 Time: 10:36:44 CPU Time: 0 0: 2:46.41 ( 166.41 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 2.971722E+05 days
 2510     Date: 02/14/07 Time: 10:36:56 CPU Time: 0 0: 2:59.04 ( 179.04 sec) Binary
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2512    Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513    Date: 02/14/07 Time: 10:37:04 CPU Time: 0 0: 3: 6.77 ( 186.77 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516    Date: 02/14/07 Time: 10:37:11 CPU Time: 0 0: 3:14.25 ( 194.25 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519    Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 3:24.19 ( 204.19 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522    Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 3:27.37 ( 207.37 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525    Date: 02/14/07 Time: 10:37:27 CPU Time: 0 0: 3:29.84 ( 209.84 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528    Date: 02/14/07 Time: 10:37:35 CPU Time: 0 0: 3:37.38 ( 217.38 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531    Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 3:50.67 ( 230.67 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534    Date: 02/14/07 Time: 10:37:59 CPU Time: 0 0: 4: 1.17 ( 241.17 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537    Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 4:10.61 ( 250.61 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540    Date: 02/14/07 Time: 10:38:15 CPU Time: 0 0: 4:17.56 ( 257.56 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543    Date: 02/14/07 Time: 10:38:24 CPU Time: 0 0: 4:26.70 ( 266.70 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546    Date: 02/14/07 Time: 10:38:34 CPU Time: 0 0: 4:36.88 ( 276.88 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549    Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 4:44.47 ( 284.47 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552    Date: 02/14/07 Time: 10:38:53 CPU Time: 0 0: 4:55.18 ( 295.18 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555    Date: 02/14/07 Time: 10:39:04 CPU Time: 0 0: 5: 6.56 ( 306.56 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558    Date: 02/14/07 Time: 10:39:15 CPU Time: 0 0: 5:17.99 ( 317.99 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561    Date: 02/14/07 Time: 10:39:23 CPU Time: 0 0: 5:25.67 ( 325.67 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564    Date: 02/14/07 Time: 10:39:32 CPU Time: 0 0: 5:34.92 ( 334.92 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567    Date: 02/14/07 Time: 10:39:42 CPU Time: 0 0: 5:44.87 ( 344.87 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570    Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 5:53.79 ( 353.79 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573    Date: 02/14/07 Time: 10:40:03 CPU Time: 0 0: 6: 4.99 ( 364.99 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576    Date: 02/14/07 Time: 10:40:10 CPU Time: 0 0: 6:12.32 ( 372.32 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579    Date: 02/14/07 Time: 10:40:19 CPU Time: 0 0: 6:21.25 ( 381.25 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582    Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 6:29.61 ( 389.61 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585    Date: 02/14/07 Time: 10:40:35 CPU Time: 0 0: 6:37.28 ( 397.28 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588    Date: 02/14/07 Time: 10:40:46 CPU Time: 0 0: 6:48.81 ( 408.81 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591    Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 6:58.63 ( 418.63 sec) Binary
2594    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
2450    Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) ASCII
2452    Time Step No. = 131 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 1.290116E-01 days
2456    Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 ( 25.67 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 7.082940E+00 days
2459    Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 ( 28.88 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 2.340221E+02 days
2462    Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 ( 33.00 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 2.227802E+03 days
2465    Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 ( 37.92 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 2.172601E+04 days
2468    Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 ( 45.69 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471    Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 ( 59.17 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474    Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 ( 62.14 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.652436E+04 days
2477    Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 ( 65.32 sec) Binary
```

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2479    Time Step No. = 300 Elapsed Time = 3.652878E+04 days
2480    Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 ( 68.54 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483    Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 ( 73.49 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486    Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 ( 75.14 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489    Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 ( 78.69 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492    Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 ( 83.08 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495    Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 ( 92.44 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498    Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 ( 102.55 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501    Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 ( 109.23 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504    Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 ( 117.52 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507    Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 ( 128.15 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510    Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 ( 138.14 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513    Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 ( 144.26 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516    Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 ( 150.18 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519    Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 ( 158.04 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522    Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 ( 160.56 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525    Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 ( 162.53 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528    Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 ( 168.51 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531    Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 ( 178.94 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534    Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 ( 187.22 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537    Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 ( 194.65 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540    Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 ( 200.17 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543    Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 ( 207.30 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546    Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 ( 215.27 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549    Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 ( 221.21 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552    Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 ( 229.50 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555    Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558    Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 ( 247.46 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561    Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 ( 253.51 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564    Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 ( 260.80 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567    Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 ( 268.62 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570    Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 ( 275.61 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573    Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 ( 284.43 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576    Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 ( 290.23 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579    Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 ( 297.30 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582    Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 ( 303.90 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585    Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 ( 309.97 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588    Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 ( 319.00 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591    Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 ( 326.37 sec) Binary
```

```
 2594    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 2610    CPU Time (this time step) = 0.27 sec = 0.00008 hr
 2611    CPU Time (total for run) = 419.26 sec = 0.11646 hr
 2612   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 2610    CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2611    CPU Time (total for run) = 326.84 sec = 0.09079 hr
 2612   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1
 3288    Date: 02/14/07 Time: 10:40:57 CPU Time: 0 0: 6:59.29 ( 419.29 sec) ASCII
 3290    Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3291    Date: 02/14/07 Time: 10:40:57 CPU Time: 0 0: 6:59.30 ( 419.30 sec) Binary
 3296    ********************************************************************************
 3297    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3298    * Completed: 02/14/07 at 10:40:57 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3299    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 3288    Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
 3290    Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3291    Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
 3296    ********************************************************************************
 3297    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3298    * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3299    ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 112

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES40_TEST7_V003.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
```

BF2_QB0600_ES40_TEST7_V004_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
    3    ** Begun on: 02/14/07 at 10:41:03 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
    3    ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
   62    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
   62    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   72    ********************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.BIN;1
   82     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
   82     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.ROT;1
   87     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
   87     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 28.33 sec = 0.00787 hr
 1774     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 20.44 sec = 0.00568 hr
 1774     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
 2450     Date: 02/14/07 Time: 10:41:32 CPU Time: 0 0: 0:28.36 ( 28.36 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:41:32 CPU Time: 0 0: 0:28.36 ( 28.36 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.883945E-01 days
 2456     Date: 02/14/07 Time: 10:41:36 CPU Time: 0 0: 0:32.27 ( 32.27 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.387923E+01 days
 2459     Date: 02/14/07 Time: 10:41:41 CPU Time: 0 0: 0:37.33 ( 37.33 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.702937E+03 days
 2462     Date: 02/14/07 Time: 10:41:47 CPU Time: 0 0: 0:44.08 ( 44.08 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.885022E+04 days
 2465     Date: 02/14/07 Time: 10:41:55 CPU Time: 0 0: 0:51.83 ( 51.83 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.655949E+04 days
 2468     Date: 02/14/07 Time: 10:42:02 CPU Time: 0 0: 0:58.68 ( 58.68 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665992E+04 days
 2471     Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 1: 4.12 ( 64.12 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.668547E+04 days
 2474     Date: 02/14/07 Time: 10:42:11 CPU Time: 0 0: 1: 7.20 ( 67.20 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.890170E+04 days
 2477     Date: 02/14/07 Time: 10:42:16 CPU Time: 0 0: 1:12.96 ( 72.96 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.425091E+04 days
 2480     Date: 02/14/07 Time: 10:42:26 CPU Time: 0 0: 1:22.99 ( 82.99 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 7.693372E+04 days
 2483     Date: 02/14/07 Time: 10:42:40 CPU Time: 0 0: 1:36.74 ( 96.74 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 7.782328E+04 days
 2486     Date: 02/14/07 Time: 10:42:45 CPU Time: 0 0: 1:41.64 ( 101.64 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 8.389603E+04 days
 2489     Date: 02/14/07 Time: 10:42:54 CPU Time: 0 0: 1:50.41 ( 110.41 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.126327E+05 days
 2492     Date: 02/14/07 Time: 10:43:05 CPU Time: 0 0: 2: 1.26 ( 121.26 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.247590E+05 days
 2495     Date: 02/14/07 Time: 10:43:18 CPU Time: 0 0: 2:14.82 ( 134.82 sec) Binary
```

```
2497  Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498  Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 2:22.18 ( 142.18 sec) Binary
2500  Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501  Date: 02/14/07 Time: 10:43:31 CPU Time: 0 0: 2:27.61 ( 147.61 sec) Binary
2503  Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504  Date: 02/14/07 Time: 10:43:41 CPU Time: 0 0: 2:37.25 ( 157.25 sec) Binary
2506  Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507  Date: 02/14/07 Time: 10:43:53 CPU Time: 0 0: 2:49.55 ( 169.55 sec) Binary
2509  Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510  Date: 02/14/07 Time: 10:44:02 CPU Time: 0 0: 2:58.50 ( 178.50 sec) Binary
2512  Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513  Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 3: 9.81 ( 189.81 sec) Binary
2515  Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516  Date: 02/14/07 Time: 10:44:19 CPU Time: 0 0: 3:15.33 ( 195.33 sec) Binary
2518  Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519  Date: 02/14/07 Time: 10:44:26 CPU Time: 0 0: 3:21.71 ( 201.71 sec) Binary
2521  Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522  Date: 02/14/07 Time: 10:44:35 CPU Time: 0 0: 3:31.44 ( 211.44 sec) Binary
2524  Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525  Date: 02/14/07 Time: 10:44:44 CPU Time: 0 0: 3:40.54 ( 220.54 sec) Binary
2527  Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528  Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 3:50.95 ( 230.95 sec) Binary
2530  Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531  Date: 02/14/07 Time: 10:45:08 CPU Time: 0 0: 4: 3.95 ( 243.95 sec) Binary
2533  Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534  Date: 02/14/07 Time: 10:45:13 CPU Time: 0 0: 4: 8.60 ( 248.60 sec) Binary
2536  Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537  Date: 02/14/07 Time: 10:45:22 CPU Time: 0 0: 4:17.37 ( 257.37 sec) Binary
2539  Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540  Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 4:21.15 ( 261.15 sec) Binary
2542  Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543  Date: 02/14/07 Time: 10:45:30 CPU Time: 0 0: 4:25.99 ( 265.99 sec) Binary
2545  Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546  Date: 02/14/07 Time: 10:45:37 CPU Time: 0 0: 4:32.23 ( 272.23 sec) Binary
2548  Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549  Date: 02/14/07 Time: 10:45:39 CPU Time: 0 0: 4:34.62 ( 274.62 sec) Binary
2551  Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552  Date: 02/14/07 Time: 10:45:43 CPU Time: 0 0: 4:38.94 ( 278.94 sec) Binary
2554  Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555  Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 4:48.02 ( 288.02 sec) Binary
2557  Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558  Date: 02/14/07 Time: 10:46:03 CPU Time: 0 0: 4:58.95 ( 298.95 sec) Binary
2560  Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561  Date: 02/14/07 Time: 10:46:13 CPU Time: 0 0: 5: 8.20 ( 308.20 sec) Binary
2563  Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564  Date: 02/14/07 Time: 10:46:23 CPU Time: 0 0: 5:17.93 ( 317.93 sec) Binary
2566  Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567  Date: 02/14/07 Time: 10:46:32 CPU Time: 0 0: 5:26.92 ( 326.92 sec) Binary
2569  Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570  Date: 02/14/07 Time: 10:46:40 CPU Time: 0 0: 5:35.70 ( 335.70 sec) Binary
2572  Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573  Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 5:44.59 ( 344.59 sec) Binary
2575  Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576  Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 5:57.68 ( 357.68 sec) Binary
2578  Time Step No. = 960 Elapsed Time = 1.728036E+06 days
2579  Date: 02/14/07 Time: 10:47:11 CPU Time: 0 0: 6: 6.09 ( 366.09 sec) Binary
2581  Time Step No. = 980 Elapsed Time = 1.780697E+06 days
2582  Date: 02/14/07 Time: 10:47:20 CPU Time: 0 0: 6:15.42 ( 375.42 sec) Binary
2584  Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
2585  Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 6:27.29 ( 387.29 sec) Binary
2587  Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
2588  Date: 02/14/07 Time: 10:47:41 CPU Time: 0 0: 6:36.10 ( 396.10 sec) Binary
2590  Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
2591  Date: 02/14/07 Time: 10:47:51 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
2593  Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
2594  Date: 02/14/07 Time: 10:48:00 CPU Time: 0 0: 6:54.74 ( 414.74 sec) Binary
2596  Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
2597  Date: 02/14/07 Time: 10:48:10 CPU Time: 0 0: 7: 5.35 ( 425.35 sec) Binary
2599  Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
2600  Date: 02/14/07 Time: 10:48:25 CPU Time: 0 0: 7:19.99 ( 439.99 sec) Binary
2602  Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
2603  Date: 02/14/07 Time: 10:48:33 CPU Time: 0 0: 7:28.24 ( 448.24 sec) Binary
2605  Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
2606  Date: 02/14/07 Time: 10:48:44 CPU Time: 0 0: 7:39.05 ( 459.05 sec) Binary
2608  Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
2609  Date: 02/14/07 Time: 10:48:50 CPU Time: 0 0: 7:45.55 ( 465.55 sec) Binary
```

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 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 2450     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.883945E-01 days
 2456     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 ( 23.30 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.387923E+01 days
 2459     Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 ( 26.98 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.702937E+03 days
 2462     Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.885022E+04 days
 2465     Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 ( 37.91 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.655949E+04 days
 2468     Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 ( 43.22 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665992E+04 days
 2471     Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 ( 47.32 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.668547E+04 days
 2474     Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 ( 49.54 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.890170E+04 days
 2477     Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 ( 53.73 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.425091E+04 days
 2480     Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 7.693372E+04 days
 2483     Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 ( 71.97 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 7.782328E+04 days
 2486     Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 ( 75.67 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 8.389603E+04 days
 2489     Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 ( 82.09 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.126327E+05 days
 2492     Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 ( 90.02 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.247590E+05 days
 2495     Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 ( 100.18 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.251232E+05 days
 2498     Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 ( 105.73 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 1.256932E+05 days
 2501     Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 ( 109.83 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 1.297175E+05 days
 2504     Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 ( 117.23 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 1.536827E+05 days
 2507     Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 ( 126.75 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 1.675465E+05 days
 2510     Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 ( 133.69 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 1.683237E+05 days
 2513     Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 ( 142.46 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 1.684494E+05 days
 2516     Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 ( 146.63 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 1.714114E+05 days
 2519     Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 ( 151.45 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 2.172821E+05 days
 2522     Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 ( 158.78 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 2.418381E+05 days
 2525     Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 ( 165.64 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 2.946886E+05 days
 2528     Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 ( 173.36 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 3.455559E+05 days
 2531     Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 ( 183.15 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 3.475921E+05 days
 2534     Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 ( 186.67 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 3.652432E+05 days
 2537     Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 ( 193.28 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 3.652449E+05 days
 2540     Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 ( 196.15 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 3.653298E+05 days
 2543     Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 ( 199.79 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.665963E+05 days
 2546     Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 ( 204.49 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.666047E+05 days
 2549     Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 ( 206.28 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.673309E+05 days
 2552     Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 ( 209.52 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.829760E+05 days
 2555     Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 ( 216.31 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 4.527294E+05 days
 2558     Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 ( 224.55 sec) Binary
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 2560     Time Step No. = 840 Elapsed Time = 5.448080E+05 days
 2561     Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 ( 231.49 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 7.104959E+05 days
 2564     Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 ( 238.81 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 7.696672E+05 days
 2567     Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 ( 245.53 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.049399E+06 days
 2570     Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 ( 252.10 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.449399E+06 days
 2573     Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 ( 258.48 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.476205E+06 days
 2576     Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 ( 267.88 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.728036E+06 days
 2579     Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 ( 273.93 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.780697E+06 days
 2582     Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 ( 280.61 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
 2585     Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 ( 289.13 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
 2588     Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 ( 295.44 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
 2591     Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 ( 302.26 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
 2594     Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 ( 308.69 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
 2597     Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 ( 316.31 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
 2600     Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 ( 326.84 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
 2603     Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 ( 332.76 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
 2606     Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 ( 340.87 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
 2609     Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 ( 345.77 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
 2628     CPU Time (this time step) = 0.36 sec = 0.00010 hr
 2629     CPU Time (total for run) = 466.26 sec = 0.12952 hr
 2630    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 2628     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2629     CPU Time (total for run) = 346.30 sec = 0.09619 hr
 2630    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1
 3306     Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 7:46.29 ( 466.29 sec) ASCII
 3308     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 7:46.30 ( 466.30 sec) Binary
 3314     ************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 10:48:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3317     ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 3306     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
 3308     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
 3314     ************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317     ************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 124

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES40_TEST7_V004.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
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BF2_QB0600_ES40_TEST7_V005_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
    3     ** Begun on: 02/14/07 at 10:42:46 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
    3     ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.ROT;1
   87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.ROT;1
   87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 34.54 sec = 0.00959 hr
 1774    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 25.47 sec = 0.00707 hr
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 1774    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
 2450    Date: 02/14/07 Time: 10:43:20 CPU Time: 0 0: 0:34.56 ( 34.56 sec) ASCII
 2452    Time Step No. = 155 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:43:20 CPU Time: 0 0: 0:34.57 ( 34.57 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.602936E-04 days
 2456    Date: 02/14/07 Time: 10:43:23 CPU Time: 0 0: 0:36.88 ( 36.88 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 2.060139E-02 days
 2459    Date: 02/14/07 Time: 10:43:27 CPU Time: 0 0: 0:40.76 ( 40.76 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 1.665882E+00 days
 2462    Date: 02/14/07 Time: 10:43:31 CPU Time: 0 0: 0:45.08 ( 45.08 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 6.830542E+01 days
 2465    Date: 02/14/07 Time: 10:43:36 CPU Time: 0 0: 0:49.84 ( 49.84 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 9.026859E+02 days
 2468    Date: 02/14/07 Time: 10:43:43 CPU Time: 0 0: 0:56.64 ( 56.64 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 5.565489E+03 days
 2471    Date: 02/14/07 Time: 10:43:51 CPU Time: 0 0: 1: 5.21 ( 65.21 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 1.541474E+04 days
 2474    Date: 02/14/07 Time: 10:44:03 CPU Time: 0 0: 1:16.84 ( 76.84 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 2.464433E+04 days
 2477    Date: 02/14/07 Time: 10:44:13 CPU Time: 0 0: 1:26.91 ( 86.91 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 2.540653E+04 days
 2480    Date: 02/14/07 Time: 10:44:22 CPU Time: 0 0: 1:36.18 ( 96.18 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 2.583713E+04 days
 2483    Date: 02/14/07 Time: 10:44:27 CPU Time: 0 0: 1:40.97 ( 100.97 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 3.095805E+04 days
 2486    Date: 02/14/07 Time: 10:44:37 CPU Time: 0 0: 1:50.55 ( 110.55 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 3.652922E+04 days
 2489    Date: 02/14/07 Time: 10:44:49 CPU Time: 0 0: 2: 3.11 ( 123.11 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 3.666828E+04 days
 2492    Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 2: 8.63 ( 128.63 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 3.667257E+04 days
 2495    Date: 02/14/07 Time: 10:44:57 CPU Time: 0 0: 2:11.03 ( 131.03 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 3.689196E+04 days
 2498    Date: 02/14/07 Time: 10:45:03 CPU Time: 0 0: 2:16.30 ( 136.30 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 3.751198E+04 days
 2501    Date: 02/14/07 Time: 10:45:10 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary
 2503    Time Step No. = 480 Elapsed Time = 3.782453E+04 days
 2504    Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 2:28.48 ( 148.48 sec) Binary
 2506    Time Step No. = 500 Elapsed Time = 4.141513E+04 days
 2507    Date: 02/14/07 Time: 10:45:24 CPU Time: 0 0: 2:37.20 ( 157.20 sec) Binary
 2509    Time Step No. = 520 Elapsed Time = 5.494758E+04 days
 2510    Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 2:48.49 ( 168.49 sec) Binary
 2512    Time Step No. = 540 Elapsed Time = 5.880383E+04 days
 2513    Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 2:58.35 ( 178.35 sec) Binary
 2515    Time Step No. = 560 Elapsed Time = 6.677868E+04 days
 2516    Date: 02/14/07 Time: 10:45:56 CPU Time: 0 0: 3: 9.78 ( 189.78 sec) Binary
 2518    Time Step No. = 580 Elapsed Time = 7.749503E+04 days
 2519    Date: 02/14/07 Time: 10:46:05 CPU Time: 0 0: 3:18.94 ( 198.94 sec) Binary
 2521    Time Step No. = 600 Elapsed Time = 8.560082E+04 days
 2522    Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 3:32.60 ( 212.60 sec) Binary
 2524    Time Step No. = 620 Elapsed Time = 8.561748E+04 days
 2525    Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 3:37.26 ( 217.26 sec) Binary
 2527    Time Step No. = 640 Elapsed Time = 8.706305E+04 days
 2528    Date: 02/14/07 Time: 10:46:30 CPU Time: 0 0: 3:43.22 ( 223.22 sec) Binary
 2530    Time Step No. = 660 Elapsed Time = 8.948916E+04 days
 2531    Date: 02/14/07 Time: 10:46:38 CPU Time: 0 0: 3:51.66 ( 231.66 sec) Binary
 2533    Time Step No. = 680 Elapsed Time = 1.244434E+05 days
 2534    Date: 02/14/07 Time: 10:46:50 CPU Time: 0 0: 4: 3.76 ( 243.76 sec) Binary
 2536    Time Step No. = 700 Elapsed Time = 1.293962E+05 days
 2537    Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 4:15.45 ( 255.45 sec) Binary
 2539    Time Step No. = 720 Elapsed Time = 2.352116E+05 days
 2540    Date: 02/14/07 Time: 10:47:13 CPU Time: 0 0: 4:25.93 ( 265.93 sec) Binary
 2542    Time Step No. = 740 Elapsed Time = 2.631586E+05 days
 2543    Date: 02/14/07 Time: 10:47:27 CPU Time: 0 0: 4:39.73 ( 279.73 sec) Binary
 2545    Time Step No. = 760 Elapsed Time = 2.692618E+05 days
 2546    Date: 02/14/07 Time: 10:47:35 CPU Time: 0 0: 4:48.54 ( 288.54 sec) Binary
 2548    Time Step No. = 780 Elapsed Time = 3.652431E+05 days
 2549    Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 5: 1.31 ( 301.31 sec) Binary
 2551    Time Step No. = 800 Elapsed Time = 3.652437E+05 days
 2552    Date: 02/14/07 Time: 10:47:53 CPU Time: 0 0: 5: 5.65 ( 305.65 sec) Binary
 2554    Time Step No. = 820 Elapsed Time = 3.652474E+05 days
 2555    Date: 02/14/07 Time: 10:48:00 CPU Time: 0 0: 5:13.29 ( 313.29 sec) Binary
 2557    Time Step No. = 840 Elapsed Time = 3.654644E+05 days
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2558     Date: 02/14/07 Time: 10:48:09 CPU Time: 0 0: 5:21.78 ( 321.78 sec) Binary
2560     Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561     Date: 02/14/07 Time: 10:48:21 CPU Time: 0 0: 5:33.87 ( 333.87 sec) Binary
2563     Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564     Date: 02/14/07 Time: 10:48:29 CPU Time: 0 0: 5:41.68 ( 341.68 sec) Binary
2566     Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567     Date: 02/14/07 Time: 10:48:32 CPU Time: 0 0: 5:44.64 ( 344.64 sec) Binary
2569     Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570     Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 5:52.14 ( 352.14 sec) Binary
2572     Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573     Date: 02/14/07 Time: 10:48:49 CPU Time: 0 0: 6: 2.28 ( 362.28 sec) Binary
2575     Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576     Date: 02/14/07 Time: 10:49:01 CPU Time: 0 0: 6:13.42 ( 373.42 sec) Binary
2578     Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579     Date: 02/14/07 Time: 10:49:11 CPU Time: 0 0: 6:23.26 ( 383.26 sec) Binary
2581     Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582     Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 6:32.88 ( 392.88 sec) Binary
2584     Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585     Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 6:41.49 ( 401.49 sec) Binary
2587     Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588     Date: 02/14/07 Time: 10:49:41 CPU Time: 0 0: 6:53.57 ( 413.57 sec) Binary
2590     Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591     Date: 02/14/07 Time: 10:49:48 CPU Time: 0 0: 7: 0.40 ( 420.40 sec) Binary
2593     Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594     Date: 02/14/07 Time: 10:50:00 CPU Time: 0 0: 7:12.50 ( 432.50 sec) Binary
2596     Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597     Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 7:19.63 ( 439.63 sec) Binary
2599     Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600     Date: 02/14/07 Time: 10:50:18 CPU Time: 0 0: 7:30.39 ( 450.39 sec) Binary
2602     Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603     Date: 02/14/07 Time: 10:50:28 CPU Time: 0 0: 7:40.86 ( 460.86 sec) Binary
2605     Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606     Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 7:47.91 ( 467.91 sec) Binary
2608     Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609     Date: 02/14/07 Time: 10:50:48 CPU Time: 0 0: 8: 0.43 ( 480.43 sec) Binary
2611     Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612     Date: 02/14/07 Time: 10:51:00 CPU Time: 0 0: 8:12.31 ( 492.31 sec) Binary
2614     Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615     Date: 02/14/07 Time: 10:51:10 CPU Time: 0 0: 8:22.63 ( 502.63 sec) Binary
2617     Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618     Date: 02/14/07 Time: 10:51:21 CPU Time: 0 0: 8:33.97 ( 513.97 sec) Binary
2620     Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621     Date: 02/14/07 Time: 10:51:31 CPU Time: 0 0: 8:44.01 ( 524.01 sec) Binary
2623     Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624     Date: 02/14/07 Time: 10:51:44 CPU Time: 0 0: 8:56.54 ( 536.54 sec) Binary
2626     Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627     Date: 02/14/07 Time: 10:51:57 CPU Time: 0 0: 9: 8.99 ( 548.99 sec) Binary
2629     Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630     Date: 02/14/07 Time: 10:52:08 CPU Time: 0 0: 9:20.68 ( 560.68 sec) Binary
2632     Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633     Date: 02/14/07 Time: 10:52:19 CPU Time: 0 0: 9:30.92 ( 570.92 sec) Binary
2635     Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636     Date: 02/14/07 Time: 10:52:30 CPU Time: 0 0: 9:42.21 ( 582.21 sec) Binary
2638     Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639     Date: 02/14/07 Time: 10:52:39 CPU Time: 0 0: 9:51.58 ( 591.58 sec) Binary
2641     Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642     Date: 02/14/07 Time: 10:52:53 CPU Time: 0 0:10: 5.18 ( 605.18 sec) Binary
2644     Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645     Date: 02/14/07 Time: 10:53:00 CPU Time: 0 0:10:12.10 ( 612.10 sec) Binary
2647     Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648     Date: 02/14/07 Time: 10:53:13 CPU Time: 0 0:10:24.86 ( 624.86 sec) Binary
2650     Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651     Date: 02/14/07 Time: 10:53:25 CPU Time: 0 0:10:37.13 ( 637.13 sec) Binary
2653     Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654     Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0:10:48.85 ( 648.85 sec) Binary
2656     Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657     Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0:10:59.07 ( 659.07 sec) Binary
2659     Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660     Date: 02/14/07 Time: 10:53:57 CPU Time: 0 0:11: 8.69 ( 668.69 sec) Binary
2662     Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663     Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0:11:20.30 ( 680.30 sec) Binary
2665     Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666     Date: 02/14/07 Time: 10:54:18 CPU Time: 0 0:11:29.99 ( 689.99 sec) Binary
2668     Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669     Date: 02/14/07 Time: 10:54:28 CPU Time: 0 0:11:40.09 ( 700.09 sec) Binary
2671     Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
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 2672    Date: 02/14/07 Time: 10:54:40 CPU Time: 0 0:11:51.96 ( 711.96 sec) Binary
 2674    Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
 2675    Date: 02/14/07 Time: 10:54:46 CPU Time: 0 0:11:57.90 ( 717.90 sec) Binary
 2677    Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
 2678    Date: 02/14/07 Time: 10:54:54 CPU Time: 0 0:12: 5.40 ( 725.40 sec) Binary
 2680    Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
 2681    Date: 02/14/07 Time: 10:55:05 CPU Time: 0 0:12:16.87 ( 736.87 sec) Binary
 2683    Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
 2684    Date: 02/14/07 Time: 10:55:12 CPU Time: 0 0:12:24.06 ( 744.06 sec) Binary
 2686    Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
 2687    Date: 02/14/07 Time: 10:55:31 CPU Time: 0 0:12:42.61 ( 762.61 sec) Binary
 2689    Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
 2690    Date: 02/14/07 Time: 10:55:45 CPU Time: 0 0:12:56.38 ( 776.38 sec) Binary
 2692    Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
 2693    Date: 02/14/07 Time: 10:55:53 CPU Time: 0 0:13: 3.95 ( 783.95 sec) Binary
 2695    Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
 2696    Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0:13:15.41 ( 795.41 sec) Binary
 2698    Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
 2699    Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0:13:26.68 ( 806.68 sec) Binary
 2701    Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
 2702    Date: 02/14/07 Time: 10:56:25 CPU Time: 0 0:13:36.68 ( 816.68 sec) Binary
 2704    Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
 2705    Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0:13:47.69 ( 827.69 sec) Binary
 2707    Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
 2708    Date: 02/14/07 Time: 10:56:49 CPU Time: 0 0:14: 0.64 ( 840.64 sec) Binary
 2710    Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
 2711    Date: 02/14/07 Time: 10:57:02 CPU Time: 0 0:14:12.92 ( 852.92 sec) Binary
 2713    Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
 2714    Date: 02/14/07 Time: 10:57:14 CPU Time: 0 0:14:24.98 ( 864.98 sec) Binary
 2716    Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
 2717    Date: 02/14/07 Time: 10:57:27 CPU Time: 0 0:14:38.33 ( 878.33 sec) Binary
 2719    Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
 2720    Date: 02/14/07 Time: 10:57:40 CPU Time: 0 0:14:51.22 ( 891.22 sec) Binary
 2722    Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
 2723    Date: 02/14/07 Time: 10:57:52 CPU Time: 0 0:15: 3.14 ( 903.14 sec) Binary
 2725    Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
 2726    Date: 02/14/07 Time: 10:57:59 CPU Time: 0 0:15: 9.69 ( 909.69 sec) Binary
 2729    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 2450    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 ( 25.49 sec) ASCII
 2452    Time Step No. = 155 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 ( 25.50 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.602936E-04 days
 2456    Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 ( 27.35 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 2.060139E-02 days
 2459    Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 ( 30.48 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 1.665882E+00 days
 2462    Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 ( 33.96 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 6.830542E+01 days
 2465    Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 ( 37.78 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 9.026859E+02 days
 2468    Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 ( 43.13 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 5.565489E+03 days
 2471    Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 1.541474E+04 days
 2474    Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 ( 58.84 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 2.464433E+04 days
 2477    Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 ( 66.56 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 2.540653E+04 days
 2480    Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 ( 73.95 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 2.583713E+04 days
 2483    Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 ( 77.79 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 3.095805E+04 days
 2486    Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 ( 85.40 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 3.652922E+04 days
 2489    Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 ( 94.85 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 3.666828E+04 days
 2492    Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 ( 99.07 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 3.667257E+04 days
 2495    Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 ( 100.93 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 3.689196E+04 days
 2498    Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 ( 105.02 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 3.751198E+04 days
 2501    Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
 2503    Time Step No. = 480 Elapsed Time = 3.782453E+04 days
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2504    Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 ( 114.50 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507    Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 ( 121.30 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510    Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 ( 130.13 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513    Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 ( 137.84 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516    Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 ( 146.79 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519    Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 ( 153.96 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522    Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 ( 164.64 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525    Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 ( 168.16 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2528    Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 ( 172.72 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531    Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 ( 178.99 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534    Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 ( 188.21 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537    Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 ( 197.38 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540    Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 ( 205.58 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543    Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 ( 216.36 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546    Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 ( 223.24 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549    Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 ( 233.23 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552    Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 ( 236.50 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555    Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 ( 242.16 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558    Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 ( 248.40 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561    Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 ( 257.21 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564    Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 ( 262.90 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567    Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 ( 265.15 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570    Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 ( 270.82 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573    Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 ( 278.50 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576    Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 ( 287.16 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579    Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 ( 294.86 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582    Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 ( 302.35 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585    Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 ( 309.10 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588    Date: 02/14/07 Time: 09:50:00 CPU Time: 0 0: 5:18.53 ( 318.53 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591    Date: 02/14/07 Time: 09:50:05 CPU Time: 0 0: 5:23.87 ( 323.87 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594    Date: 02/14/07 Time: 09:50:14 CPU Time: 0 0: 5:33.29 ( 333.29 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597    Date: 02/14/07 Time: 09:50:20 CPU Time: 0 0: 5:38.85 ( 338.85 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600    Date: 02/14/07 Time: 09:50:28 CPU Time: 0 0: 5:47.25 ( 347.25 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603    Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 5:55.37 ( 355.37 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606    Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 6: 0.84 ( 360.84 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609    Date: 02/14/07 Time: 09:50:52 CPU Time: 0 0: 6:10.55 ( 370.55 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612    Date: 02/14/07 Time: 09:51:01 CPU Time: 0 0: 6:19.69 ( 379.69 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615    Date: 02/14/07 Time: 09:51:09 CPU Time: 0 0: 6:27.75 ( 387.75 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
```

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2618    Date: 02/14/07 Time: 09:51:18 CPU Time: 0 0: 6:36.54 ( 396.54 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621    Date: 02/14/07 Time: 09:51:26 CPU Time: 0 0: 6:44.37 ( 404.37 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624    Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 6:54.16 ( 414.16 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627    Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 7: 3.87 ( 423.87 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630    Date: 02/14/07 Time: 09:51:54 CPU Time: 0 0: 7:12.96 ( 432.96 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633    Date: 02/14/07 Time: 09:52:02 CPU Time: 0 0: 7:20.92 ( 440.92 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636    Date: 02/14/07 Time: 09:52:11 CPU Time: 0 0: 7:29.74 ( 449.74 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639    Date: 02/14/07 Time: 09:52:18 CPU Time: 0 0: 7:37.11 ( 457.11 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642    Date: 02/14/07 Time: 09:52:29 CPU Time: 0 0: 7:47.71 ( 467.71 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645    Date: 02/14/07 Time: 09:52:34 CPU Time: 0 0: 7:53.12 ( 473.12 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648    Date: 02/14/07 Time: 09:52:44 CPU Time: 0 0: 8: 3.02 ( 483.02 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651    Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 8:12.59 ( 492.59 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654    Date: 02/14/07 Time: 09:53:03 CPU Time: 0 0: 8:21.75 ( 501.75 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657    Date: 02/14/07 Time: 09:53:11 CPU Time: 0 0: 8:29.74 ( 509.74 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660    Date: 02/14/07 Time: 09:53:19 CPU Time: 0 0: 8:37.16 ( 517.16 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663    Date: 02/14/07 Time: 09:53:27 CPU Time: 0 0: 8:46.04 ( 526.04 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666    Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:53.11 ( 533.11 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669    Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 9: 0.50 ( 540.50 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672    Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 9: 9.17 ( 549.17 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675    Date: 02/14/07 Time: 09:53:55 CPU Time: 0 0: 9:13.49 ( 553.49 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678    Date: 02/14/07 Time: 09:54:01 CPU Time: 0 0: 9:19.25 ( 559.25 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681    Date: 02/14/07 Time: 09:54:09 CPU Time: 0 0: 9:27.97 ( 567.97 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684    Date: 02/14/07 Time: 09:54:15 CPU Time: 0 0: 9:33.22 ( 573.22 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687    Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 9:46.68 ( 586.68 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690    Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 9:56.65 ( 596.65 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693    Date: 02/14/07 Time: 09:54:44 CPU Time: 0 0:10: 2.16 ( 602.16 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696    Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0:10:10.52 ( 610.52 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699    Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0:10:18.75 ( 618.75 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702    Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 ( 626.21 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705    Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 ( 634.59 sec) Binary
2707    Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708    Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 ( 644.40 sec) Binary
2710    Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711    Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 ( 653.66 sec) Binary
2713    Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714    Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 ( 662.79 sec) Binary
2716    Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717    Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 ( 672.94 sec) Binary
2719    Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720    Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 ( 682.75 sec) Binary
2722    Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723    Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 ( 691.45 sec) Binary
2725    Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726    Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 ( 696.25 sec) Binary
2729    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
 2745     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2746     CPU Time (total for run) = 911.23 sec = 0.25312 hr
 2747    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 2745     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2746     CPU Time (total for run) = 697.37 sec = 0.19371 hr
 2747    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1
 3423     Date: 02/14/07 Time: 10:58:00 CPU Time: 0 0:15:11.26 ( 911.26 sec) ASCII
 3425     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3426     Date: 02/14/07 Time: 10:58:00 CPU Time: 0 0:15:11.27 ( 911.27 sec) Binary
 3431     ******************************************************************************
 3432     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3433     * Completed: 02/14/07 at 10:58:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3434     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 3423     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
 3425     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3426     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
 3431     ******************************************************************************
 3432     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3433     * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3434     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 202

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES40_TEST7_V005.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
```

BF2_QB0600_ES40_TEST7_V006_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
    3     ** Begun on: 02/14/07 at 10:43:40 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
    3     ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
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   72    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.SUM;1
   77    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
   77    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.BIN;1
   82    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
   82    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
   86    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.ROT;1
   87    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   86    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
   87    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
 1772    CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773    CPU Time (total for run) = 36.38 sec = 0.01011 hr
 1774    ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1772    CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773    CPU Time (total for run) = 28.24 sec = 0.00784 hr
 1774    ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
 2450    Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 0:36.41 ( 36.41 sec) ASCII
 2452    Time Step No. = 148 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 0:36.41 ( 36.41 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.693989E-02 days
 2456    Date: 02/14/07 Time: 10:44:23 CPU Time: 0 0: 0:42.66 ( 42.66 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 1.499754E+00 days
 2459    Date: 02/14/07 Time: 10:44:28 CPU Time: 0 0: 0:47.44 ( 47.44 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 6.033075E+01 days
 2462    Date: 02/14/07 Time: 10:44:33 CPU Time: 0 0: 0:52.57 ( 52.57 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 2.893437E+02 days
 2465    Date: 02/14/07 Time: 10:44:39 CPU Time: 0 0: 0:58.78 ( 58.78 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 1.396859E+03 days
 2468    Date: 02/14/07 Time: 10:44:46 CPU Time: 0 0: 1: 5.62 ( 65.62 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 8.613100E+03 days
 2471    Date: 02/14/07 Time: 10:44:55 CPU Time: 0 0: 1:14.44 ( 74.44 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 1.102377E+04 days
 2474    Date: 02/14/07 Time: 10:45:00 CPU Time: 0 0: 1:19.56 ( 79.56 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 2.378052E+04 days
 2477    Date: 02/14/07 Time: 10:45:09 CPU Time: 0 0: 1:28.79 ( 88.79 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 2.835195E+04 days
 2480    Date: 02/14/07 Time: 10:45:16 CPU Time: 0 0: 1:35.62 ( 95.62 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483    Date: 02/14/07 Time: 10:45:31 CPU Time: 0 0: 1:50.50 ( 110.50 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 3.652432E+04 days
 2486    Date: 02/14/07 Time: 10:45:36 CPU Time: 0 0: 1:54.87 ( 114.87 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 3.652571E+04 days
 2489    Date: 02/14/07 Time: 10:45:40 CPU Time: 0 0: 1:58.74 ( 118.74 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 3.660922E+04 days
 2492    Date: 02/14/07 Time: 10:45:46 CPU Time: 0 0: 2: 5.32 ( 125.32 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 3.666204E+04 days
 2495    Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 2: 7.83 ( 127.83 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 3.681434E+04 days
 2498    Date: 02/14/07 Time: 10:45:53 CPU Time: 0 0: 2:12.15 ( 132.15 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 4.034225E+04 days
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2501    Date: 02/14/07 Time: 10:46:00 CPU Time: 0 0: 2:18.64 ( 138.64 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504    Date: 02/14/07 Time: 10:46:09 CPU Time: 0 0: 2:28.09 ( 148.09 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507    Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 2:43.51 ( 163.51 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510    Date: 02/14/07 Time: 10:46:36 CPU Time: 0 0: 2:54.74 ( 174.74 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513    Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 3: 7.87 ( 187.87 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516    Date: 02/14/07 Time: 10:47:02 CPU Time: 0 0: 3:20.94 ( 200.94 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519    Date: 02/14/07 Time: 10:47:08 CPU Time: 0 0: 3:26.52 ( 206.52 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522    Date: 02/14/07 Time: 10:47:12 CPU Time: 0 0: 3:30.75 ( 210.75 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525    Date: 02/14/07 Time: 10:47:15 CPU Time: 0 0: 3:33.81 ( 213.81 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528    Date: 02/14/07 Time: 10:47:21 CPU Time: 0 0: 3:40.36 ( 220.36 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531    Date: 02/14/07 Time: 10:47:33 CPU Time: 0 0: 3:52.00 ( 232.00 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534    Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 4: 6.64 ( 246.64 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537    Date: 02/14/07 Time: 10:47:54 CPU Time: 0 0: 4:12.70 ( 252.70 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540    Date: 02/14/07 Time: 10:48:05 CPU Time: 0 0: 4:23.54 ( 263.54 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543    Date: 02/14/07 Time: 10:48:16 CPU Time: 0 0: 4:34.65 ( 274.65 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546    Date: 02/14/07 Time: 10:48:28 CPU Time: 0 0: 4:46.92 ( 286.92 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549    Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 4:58.10 ( 298.10 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552    Date: 02/14/07 Time: 10:48:49 CPU Time: 0 0: 5: 7.75 ( 307.75 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555    Date: 02/14/07 Time: 10:49:01 CPU Time: 0 0: 5:20.18 ( 320.18 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558    Date: 02/14/07 Time: 10:49:12 CPU Time: 0 0: 5:30.29 ( 330.29 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561    Date: 02/14/07 Time: 10:49:21 CPU Time: 0 0: 5:39.40 ( 339.40 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564    Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 5:47.83 ( 347.83 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567    Date: 02/14/07 Time: 10:49:36 CPU Time: 0 0: 5:54.81 ( 354.81 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570    Date: 02/14/07 Time: 10:49:49 CPU Time: 0 0: 6: 8.13 ( 368.13 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573    Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 6:14.79 ( 374.79 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576    Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 6:25.53 ( 385.53 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579    Date: 02/14/07 Time: 10:50:17 CPU Time: 0 0: 6:35.98 ( 395.98 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582    Date: 02/14/07 Time: 10:50:22 CPU Time: 0 0: 6:41.01 ( 401.01 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585    Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 6:49.91 ( 409.91 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588    Date: 02/14/07 Time: 10:50:40 CPU Time: 0 0: 6:58.32 ( 418.32 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591    Date: 02/14/07 Time: 10:50:50 CPU Time: 0 0: 7: 8.15 ( 428.15 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594    Date: 02/14/07 Time: 10:50:56 CPU Time: 0 0: 7:14.58 ( 434.58 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597    Date: 02/14/07 Time: 10:51:08 CPU Time: 0 0: 7:26.96 ( 446.96 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600    Date: 02/14/07 Time: 10:51:14 CPU Time: 0 0: 7:32.80 ( 452.80 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603    Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 7:40.99 ( 460.99 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606    Date: 02/14/07 Time: 10:51:29 CPU Time: 0 0: 7:47.26 ( 467.26 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609    Date: 02/14/07 Time: 10:51:41 CPU Time: 0 0: 7:58.89 ( 478.89 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612    Date: 02/14/07 Time: 10:51:54 CPU Time: 0 0: 8:12.59 ( 492.59 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
```

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 2615     Date: 02/14/07 Time: 10:52:02 CPU Time: 0 0: 8:20.33 ( 500.33 sec) Binary
 2617     Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
 2618     Date: 02/14/07 Time: 10:52:15 CPU Time: 0 0: 8:33.54 ( 513.54 sec) Binary
 2620     Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
 2621     Date: 02/14/07 Time: 10:52:27 CPU Time: 0 0: 8:45.42 ( 525.42 sec) Binary
 2623     Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
 2624     Date: 02/14/07 Time: 10:52:37 CPU Time: 0 0: 8:54.95 ( 534.95 sec) Binary
 2626     Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
 2627     Date: 02/14/07 Time: 10:52:46 CPU Time: 0 0: 9: 4.18 ( 544.18 sec) Binary
 2629     Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
 2630     Date: 02/14/07 Time: 10:52:58 CPU Time: 0 0: 9:16.16 ( 556.16 sec) Binary
 2632     Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
 2633     Date: 02/14/07 Time: 10:53:15 CPU Time: 0 0: 9:32.81 ( 572.81 sec) Binary
 2635     Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
 2636     Date: 02/14/07 Time: 10:53:21 CPU Time: 0 0: 9:39.66 ( 579.66 sec) Binary
 2638     Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
 2639     Date: 02/14/07 Time: 10:53:29 CPU Time: 0 0: 9:47.51 ( 587.51 sec) Binary
 2641     Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
 2642     Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0: 9:55.24 ( 595.24 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
 2645     Date: 02/14/07 Time: 10:53:49 CPU Time: 0 0:10: 6.87 ( 606.87 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
 2648     Date: 02/14/07 Time: 10:53:59 CPU Time: 0 0:10:17.40 ( 617.40 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
 2651     Date: 02/14/07 Time: 10:54:07 CPU Time: 0 0:10:25.62 ( 625.62 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
 2654     Date: 02/14/07 Time: 10:54:14 CPU Time: 0 0:10:32.38 ( 632.38 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
 2657     Date: 02/14/07 Time: 10:54:25 CPU Time: 0 0:10:42.82 ( 642.82 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
 2660     Date: 02/14/07 Time: 10:54:36 CPU Time: 0 0:10:53.66 ( 653.66 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
 2663     Date: 02/14/07 Time: 10:54:43 CPU Time: 0 0:11: 0.99 ( 660.99 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
 2666     Date: 02/14/07 Time: 10:54:50 CPU Time: 0 0:11: 8.19 ( 668.19 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
 2669     Date: 02/14/07 Time: 10:55:01 CPU Time: 0 0:11:18.94 ( 678.94 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
 2672     Date: 02/14/07 Time: 10:55:09 CPU Time: 0 0:11:26.16 ( 686.16 sec) Binary
 2675     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 2450     Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) ASCII
 2452     Time Step No. = 148 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.693989E-02 days
 2456     Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 ( 33.21 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 1.499754E+00 days
 2459     Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 6.033075E+01 days
 2462     Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 ( 40.92 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 2.893437E+02 days
 2465     Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 ( 45.59 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.396859E+03 days
 2468     Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 ( 50.76 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 8.613100E+03 days
 2471     Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 ( 57.35 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.102377E+04 days
 2474     Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 ( 61.27 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 2.378052E+04 days
 2477     Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 ( 68.51 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 2.835195E+04 days
 2480     Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 ( 73.81 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483     Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 ( 85.19 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.652432E+04 days
 2486     Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 ( 88.54 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 3.652571E+04 days
 2489     Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 ( 91.48 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.660922E+04 days
 2492     Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 ( 96.46 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.666204E+04 days
 2495     Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 ( 98.36 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.681434E+04 days
 2498     Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 ( 101.65 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 4.034225E+04 days
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2501    Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 ( 106.55 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504    Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 ( 113.67 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507    Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 ( 125.27 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510    Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 ( 133.77 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513    Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 ( 143.77 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516    Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 ( 153.83 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519    Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 ( 158.11 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522    Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 ( 161.37 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525    Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 ( 163.69 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528    Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 ( 168.61 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531    Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 ( 177.35 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534    Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 ( 188.33 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537    Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 ( 192.77 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540    Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 ( 200.90 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543    Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 ( 209.25 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546    Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 ( 218.49 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549    Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 ( 226.91 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552    Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 ( 234.11 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555    Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 ( 243.22 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558    Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 ( 251.03 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561    Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564    Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 ( 264.36 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567    Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 ( 269.62 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570    Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 ( 279.62 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573    Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 ( 284.64 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576    Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 ( 292.67 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579    Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 ( 300.51 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582    Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 ( 304.31 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
2585    Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 ( 311.00 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588    Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 ( 317.36 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591    Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 ( 324.66 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594    Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 ( 329.45 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597    Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 ( 338.71 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600    Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 ( 343.11 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603    Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 ( 349.27 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606    Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 ( 354.01 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609    Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 ( 362.78 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612    Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 ( 373.04 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
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 2615    Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 ( 378.86 sec) Binary
 2617    Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
 2618    Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 ( 388.80 sec) Binary
 2620    Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
 2621    Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 ( 397.73 sec) Binary
 2623    Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
 2624    Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 ( 404.90 sec) Binary
 2626    Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
 2627    Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 ( 411.87 sec) Binary
 2629    Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
 2630    Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 ( 420.86 sec) Binary
 2632    Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
 2633    Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 ( 433.36 sec) Binary
 2635    Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
 2636    Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 ( 438.55 sec) Binary
 2638    Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
 2639    Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 ( 444.70 sec) Binary
 2641    Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
 2642    Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 ( 450.78 sec) Binary
 2644    Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
 2645    Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 ( 459.90 sec) Binary
 2647    Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
 2648    Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 ( 468.13 sec) Binary
 2650    Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
 2651    Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 ( 474.59 sec) Binary
 2653    Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
 2654    Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 ( 479.91 sec) Binary
 2656    Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
 2657    Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 ( 488.13 sec) Binary
 2659    Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
 2660    Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 ( 496.71 sec) Binary
 2662    Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
 2663    Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 ( 502.53 sec) Binary
 2665    Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
 2666    Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 ( 508.18 sec) Binary
 2668    Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
 2669    Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 ( 516.62 sec) Binary
 2671    Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
 2672    Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 ( 522.29 sec) Binary
 2675    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
 2691    CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2692    CPU Time (total for run) = 688.61 sec = 0.19128 hr
 2693   ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 2691    CPU Time (this time step) = 0.22 sec = 0.00006 hr
 2692    CPU Time (total for run) = 524.22 sec = 0.14562 hr
 2693   ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1
 3369    Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:11:28.63 ( 688.63 sec) ASCII
 3371    Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
 3372    Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:11:28.64 ( 688.64 sec) Binary
 3377   ****************************************************************************
 3378    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3379    * Completed: 02/14/07 at 10:55:11 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3380   ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 3369    Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
 3371    Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
 3372    Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
 3377   ****************************************************************************
 3378    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3379    * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3380   ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 166

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
```

```
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES40_TEST7_V006.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
```

BF2_QB0600_ES40_TEST7_V007_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
    3     ** Begun on: 02/14/07 at 10:48:58 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
    3     ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
   62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.BIN;1
   82     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.BIN;1
   82     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.ROT;1
   87     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.ROT;1
   87     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 31.15 sec = 0.00865 hr
 1774     ***************************************************************************
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 22.28 sec = 0.00619 hr
 1774    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
 2450     Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 0:31.18 ( 31.18 sec) ASCII
 2452     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:49:29 CPU Time: 0 0: 0:31.18 ( 31.18 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 2456     Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 0:32.61 ( 32.61 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 6.773075E+00 days
 2459     Date: 02/14/07 Time: 10:49:35 CPU Time: 0 0: 0:37.36 ( 37.36 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 2462     Date: 02/14/07 Time: 10:49:40 CPU Time: 0 0: 0:42.38 ( 42.38 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.266587E+03 days
 2465     Date: 02/14/07 Time: 10:49:48 CPU Time: 0 0: 0:50.21 ( 50.21 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.223245E+04 days
 2468     Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 0:58.40 ( 58.40 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 10:50:15 CPU Time: 0 0: 1:17.11 ( 77.11 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2474     Date: 02/14/07 Time: 10:50:19 CPU Time: 0 0: 1:20.85 ( 80.85 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 2477     Date: 02/14/07 Time: 10:50:23 CPU Time: 0 0: 1:24.73 ( 84.73 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.652448E+04 days
 2480     Date: 02/14/07 Time: 10:50:27 CPU Time: 0 0: 1:29.16 ( 89.16 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.653947E+04 days
 2483     Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 1:33.49 ( 93.49 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.666343E+04 days
 2486     Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 1:37.38 ( 97.38 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.669537E+04 days
 2489     Date: 02/14/07 Time: 10:50:39 CPU Time: 0 0: 1:40.75 ( 100.75 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.742515E+04 days
 2492     Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 1:47.12 ( 107.12 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.822089E+04 days
 2495     Date: 02/14/07 Time: 10:50:57 CPU Time: 0 0: 1:58.48 ( 118.48 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 8.862956E+04 days
 2498     Date: 02/14/07 Time: 10:51:05 CPU Time: 0 0: 2: 6.78 ( 126.78 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.455379E+05 days
 2501     Date: 02/14/07 Time: 10:51:18 CPU Time: 0 0: 2:19.52 ( 139.52 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.652522E+05 days
 2504     Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 2:25.35 ( 145.35 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.654410E+05 days
 2507     Date: 02/14/07 Time: 10:51:30 CPU Time: 0 0: 2:31.53 ( 151.53 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.666131E+05 days
 2510     Date: 02/14/07 Time: 10:51:35 CPU Time: 0 0: 2:36.93 ( 156.93 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.666386E+05 days
 2513     Date: 02/14/07 Time: 10:51:37 CPU Time: 0 0: 2:39.23 ( 159.23 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 3.688548E+05 days
 2516     Date: 02/14/07 Time: 10:51:42 CPU Time: 0 0: 2:44.30 ( 164.30 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 4.082584E+05 days
 2519     Date: 02/14/07 Time: 10:51:53 CPU Time: 0 0: 2:55.25 ( 175.25 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 4.458639E+05 days
 2522     Date: 02/14/07 Time: 10:52:06 CPU Time: 0 0: 3: 8.15 ( 188.15 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 4.463537E+05 days
 2525     Date: 02/14/07 Time: 10:52:14 CPU Time: 0 0: 3:15.61 ( 195.61 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 4.480015E+05 days
 2528     Date: 02/14/07 Time: 10:52:20 CPU Time: 0 0: 3:21.21 ( 201.21 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 4.604332E+05 days
 2531     Date: 02/14/07 Time: 10:52:29 CPU Time: 0 0: 3:30.01 ( 210.01 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 4.725391E+05 days
 2534     Date: 02/14/07 Time: 10:52:35 CPU Time: 0 0: 3:36.45 ( 216.45 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 6.319950E+05 days
 2537     Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 3:47.88 ( 227.88 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 6.358626E+05 days
 2540     Date: 02/14/07 Time: 10:52:54 CPU Time: 0 0: 3:55.58 ( 235.58 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 6.368313E+05 days
 2543     Date: 02/14/07 Time: 10:53:02 CPU Time: 0 0: 4: 3.26 ( 243.26 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 6.464683E+05 days
 2546     Date: 02/14/07 Time: 10:53:09 CPU Time: 0 0: 4:10.06 ( 250.06 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 7.290303E+05 days
 2549     Date: 02/14/07 Time: 10:53:18 CPU Time: 0 0: 4:19.09 ( 259.09 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 7.323189E+05 days
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2552     Date: 02/14/07 Time: 10:53:26 CPU Time: 0 0: 4:26.72 ( 266.72 sec) Binary
2554     Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555     Date: 02/14/07 Time: 10:53:30 CPU Time: 0 0: 4:31.68 ( 271.68 sec) Binary
2557     Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558     Date: 02/14/07 Time: 10:53:38 CPU Time: 0 0: 4:39.23 ( 279.23 sec) Binary
2560     Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561     Date: 02/14/07 Time: 10:53:46 CPU Time: 0 0: 4:46.84 ( 286.84 sec) Binary
2563     Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564     Date: 02/14/07 Time: 10:53:56 CPU Time: 0 0: 4:57.43 ( 297.43 sec) Binary
2566     Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567     Date: 02/14/07 Time: 10:54:06 CPU Time: 0 0: 5: 7.19 ( 307.19 sec) Binary
2569     Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570     Date: 02/14/07 Time: 10:54:14 CPU Time: 0 0: 5:14.71 ( 314.71 sec) Binary
2572     Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573     Date: 02/14/07 Time: 10:54:24 CPU Time: 0 0: 5:24.65 ( 324.65 sec) Binary
2575     Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576     Date: 02/14/07 Time: 10:54:35 CPU Time: 0 0: 5:35.69 ( 335.69 sec) Binary
2578     Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579     Date: 02/14/07 Time: 10:54:47 CPU Time: 0 0: 5:48.43 ( 348.43 sec) Binary
2581     Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582     Date: 02/14/07 Time: 10:54:55 CPU Time: 0 0: 5:55.58 ( 355.58 sec) Binary
2584     Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585     Date: 02/14/07 Time: 10:55:04 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
2587     Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588     Date: 02/14/07 Time: 10:55:13 CPU Time: 0 0: 6:13.97 ( 373.97 sec) Binary
2590     Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591     Date: 02/14/07 Time: 10:55:24 CPU Time: 0 0: 6:25.07 ( 385.07 sec) Binary
2593     Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594     Date: 02/14/07 Time: 10:55:31 CPU Time: 0 0: 6:31.83 ( 391.83 sec) Binary
2596     Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597     Date: 02/14/07 Time: 10:55:42 CPU Time: 0 0: 6:42.36 ( 402.36 sec) Binary
2599     Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
2600     Date: 02/14/07 Time: 10:55:50 CPU Time: 0 0: 6:50.83 ( 410.83 sec) Binary
2602     Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
2603     Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0: 7: 6.09 ( 426.09 sec) Binary
2605     Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
2606     Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0: 7:16.18 ( 436.18 sec) Binary
2608     Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
2609     Date: 02/14/07 Time: 10:56:29 CPU Time: 0 0: 7:29.56 ( 449.56 sec) Binary
2611     Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
2612     Date: 02/14/07 Time: 10:56:41 CPU Time: 0 0: 7:41.39 ( 461.39 sec) Binary
2614     Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
2615     Date: 02/14/07 Time: 10:56:54 CPU Time: 0 0: 7:54.79 ( 474.79 sec) Binary
2617     Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
2618     Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0: 8: 2.09 ( 482.09 sec) Binary
2620     Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
2621     Date: 02/14/07 Time: 10:57:09 CPU Time: 0 0: 8: 9.87 ( 489.87 sec) Binary
2623     Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
2624     Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 8:18.17 ( 498.17 sec) Binary
2627     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
2450     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 ( 22.29 sec) ASCII
2452     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
2453     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 ( 22.30 sec) Binary
2455     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
2456     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 ( 23.32 sec) Binary
2458     Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459     Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 ( 26.72 sec) Binary
2461     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462     Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 ( 30.53 sec) Binary
2464     Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465     Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 ( 36.63 sec) Binary
2467     Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468     Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 ( 43.00 sec) Binary
2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471     Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 ( 57.56 sec) Binary
2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474     Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 ( 60.49 sec) Binary
2476     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477     Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 ( 63.56 sec) Binary
2479     Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480     Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 ( 67.05 sec) Binary
2482     Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483     Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 ( 70.48 sec) Binary
2485     Time Step No. = 340 Elapsed Time = 3.666343E+04 days
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2486    Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489    Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 ( 76.20 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492    Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 ( 81.20 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495    Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 ( 89.92 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498    Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 ( 96.35 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501    Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 ( 106.27 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504    Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507    Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 ( 115.75 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510    Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 ( 120.01 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513    Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 ( 121.83 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516    Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 ( 125.81 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519    Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 ( 134.35 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522    Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 ( 144.44 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525    Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 ( 150.28 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528    Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 ( 154.67 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531    Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 ( 161.58 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534    Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 ( 166.68 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537    Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 ( 175.64 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540    Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 ( 181.65 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543    Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 ( 187.61 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546    Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 ( 192.92 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549    Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 ( 199.95 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552    Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 ( 205.94 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555    Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 ( 209.84 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558    Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 ( 215.71 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561    Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 ( 221.70 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564    Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 ( 229.87 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567    Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 ( 237.52 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 8.062402E+05 days
2570    Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 ( 243.44 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 8.139864E+05 days
2573    Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 ( 251.24 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 8.431727E+05 days
2576    Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 ( 259.95 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 8.666810E+05 days
2579    Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 ( 269.98 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 8.821825E+05 days
2582    Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 ( 275.57 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
2585    Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 ( 282.92 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
2588    Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 ( 289.87 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
2591    Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 ( 298.48 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
2594    Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 ( 303.74 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
2597    Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 ( 311.91 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
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 2600     Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
 2603     Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
 2606     Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
 2609     Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
 2612     Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
 2615     Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
 2618     Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
 2621     Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
 2624     Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
 2627     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
 2643     CPU Time (this time step) = 0.36 sec = 0.00010 hr
 2644     CPU Time (total for run) = 504.97 sec = 0.14027 hr
 2645    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 2643     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2644     CPU Time (total for run) = 392.16 sec = 0.10893 hr
 2645    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1
 3321     Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 8:24.99 ( 504.99 sec) ASCII
 3323     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3324     Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 8:24.99 ( 504.99 sec) Binary
 3329    ****************************************************************************
 3330     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3331     * Completed: 02/14/07 at 10:57:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3332    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 3321     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
 3323     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3324     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
 3329    ****************************************************************************
 3330     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3331     * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3332    ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 134

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES40_TEST7_V007.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
```

BF2_QB0600_ES40_TEST7_V008_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
    3     ** Begun on: 02/14/07 at 10:55:19 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
    3     ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
   62    ****************************************************************************
******
```

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
 1772     CPU Time (this time step) = 0.27 sec = 0.00008 hr
 1773     CPU Time (total for run) = 45.55 sec = 0.01265 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 32.61 sec = 0.00906 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
 2450     Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:45.57 ( 45.57 sec) ASCII
 2452     Time Step No. = 176 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:45.58 ( 45.58 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 10:56:07 CPU Time: 0 0: 0:48.50 ( 48.50 sec) Binary
 2458     Time Step No. = 200 Elapsed Time = 1.053791E+00 days
 2459     Date: 02/14/07 Time: 10:56:12 CPU Time: 0 0: 0:53.07 ( 53.07 sec) Binary
 2461     Time Step No. = 220 Elapsed Time = 9.183050E+01 days
 2462     Date: 02/14/07 Time: 10:56:18 CPU Time: 0 0: 0:59.30 ( 59.30 sec) Binary
 2464     Time Step No. = 240 Elapsed Time = 2.153105E+03 days
 2465     Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0: 1: 7.22 ( 67.22 sec) Binary
 2467     Time Step No. = 260 Elapsed Time = 5.087922E+03 days
 2468     Date: 02/14/07 Time: 10:56:33 CPU Time: 0 0: 1:14.43 ( 74.43 sec) Binary
 2470     Time Step No. = 280 Elapsed Time = 1.243792E+04 days
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2471    Date: 02/14/07 Time: 10:56:42 CPU Time: 0 0: 1:23.72 ( 83.72 sec) Binary
2473    Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474    Date: 02/14/07 Time: 10:56:47 CPU Time: 0 0: 1:28.67 ( 88.67 sec) Binary
2476    Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477    Date: 02/14/07 Time: 10:56:56 CPU Time: 0 0: 1:37.38 ( 97.38 sec) Binary
2479    Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2480    Date: 02/14/07 Time: 10:57:04 CPU Time: 0 0: 1:44.95 ( 104.95 sec) Binary
2482    Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483    Date: 02/14/07 Time: 10:57:10 CPU Time: 0 0: 1:51.35 ( 111.35 sec) Binary
2485    Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486    Date: 02/14/07 Time: 10:57:13 CPU Time: 0 0: 1:53.97 ( 113.97 sec) Binary
2488    Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489    Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 1:58.85 ( 118.85 sec) Binary
2491    Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492    Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 2: 9.19 ( 129.19 sec) Binary
2494    Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495    Date: 02/14/07 Time: 10:57:41 CPU Time: 0 0: 2:22.39 ( 142.39 sec) Binary
2497    Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498    Date: 02/14/07 Time: 10:57:50 CPU Time: 0 0: 2:30.71 ( 150.71 sec) Binary
2500    Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501    Date: 02/14/07 Time: 10:57:56 CPU Time: 0 0: 2:37.20 ( 157.20 sec) Binary
2503    Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504    Date: 02/14/07 Time: 10:58:07 CPU Time: 0 0: 2:47.80 ( 167.80 sec) Binary
2506    Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507    Date: 02/14/07 Time: 10:58:16 CPU Time: 0 0: 2:56.62 ( 176.62 sec) Binary
2509    Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510    Date: 02/14/07 Time: 10:58:20 CPU Time: 0 0: 3: 1.39 ( 181.39 sec) Binary
2512    Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513    Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0: 3:10.66 ( 190.66 sec) Binary
2515    Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516    Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 3:21.39 ( 201.39 sec) Binary
2518    Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519    Date: 02/14/07 Time: 10:58:45 CPU Time: 0 0: 3:26.21 ( 206.21 sec) Binary
2521    Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522    Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 3:35.34 ( 215.34 sec) Binary
2524    Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525    Date: 02/14/07 Time: 10:59:06 CPU Time: 0 0: 3:46.49 ( 226.49 sec) Binary
2527    Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528    Date: 02/14/07 Time: 10:59:16 CPU Time: 0 0: 3:57.13 ( 237.13 sec) Binary
2530    Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531    Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 4: 4.69 ( 244.69 sec) Binary
2533    Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534    Date: 02/14/07 Time: 10:59:29 CPU Time: 0 0: 4:10.26 ( 250.26 sec) Binary
2536    Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537    Date: 02/14/07 Time: 10:59:38 CPU Time: 0 0: 4:18.55 ( 258.55 sec) Binary
2539    Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540    Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:31.47 ( 271.47 sec) Binary
2542    Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543    Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0: 4:39.64 ( 279.64 sec) Binary
2545    Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546    Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0: 4:45.55 ( 285.55 sec) Binary
2548    Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549    Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 4:54.69 ( 294.69 sec) Binary
2551    Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552    Date: 02/14/07 Time: 11:00:27 CPU Time: 0 0: 5: 7.72 ( 307.72 sec) Binary
2554    Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555    Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 5:18.35 ( 318.35 sec) Binary
2557    Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558    Date: 02/14/07 Time: 11:00:45 CPU Time: 0 0: 5:26.10 ( 326.10 sec) Binary
2560    Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561    Date: 02/14/07 Time: 11:00:55 CPU Time: 0 0: 5:35.99 ( 335.99 sec) Binary
2563    Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564    Date: 02/14/07 Time: 11:01:01 CPU Time: 0 0: 5:41.99 ( 341.99 sec) Binary
2566    Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567    Date: 02/14/07 Time: 11:01:05 CPU Time: 0 0: 5:45.62 ( 345.62 sec) Binary
2569    Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570    Date: 02/14/07 Time: 11:01:07 CPU Time: 0 0: 5:47.99 ( 347.99 sec) Binary
2572    Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573    Date: 02/14/07 Time: 11:01:13 CPU Time: 0 0: 5:53.61 ( 353.61 sec) Binary
2575    Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576    Date: 02/14/07 Time: 11:01:24 CPU Time: 0 0: 6: 4.64 ( 364.64 sec) Binary
2578    Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579    Date: 02/14/07 Time: 11:01:31 CPU Time: 0 0: 6:11.65 ( 371.65 sec) Binary
2581    Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582    Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 6:23.95 ( 383.95 sec) Binary
2584    Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
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2585     Date: 02/14/07 Time: 11:01:55 CPU Time: 0 0: 6:35.50 ( 395.50 sec) Binary
2587     Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588     Date: 02/14/07 Time: 11:02:09 CPU Time: 0 0: 6:49.75 ( 409.75 sec) Binary
2590     Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591     Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0: 6:56.96 ( 416.96 sec) Binary
2593     Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594     Date: 02/14/07 Time: 11:02:28 CPU Time: 0 0: 7: 8.29 ( 428.29 sec) Binary
2596     Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597     Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0: 7:17.72 ( 437.72 sec) Binary
2599     Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600     Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:28.07 ( 448.07 sec) Binary
2602     Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603     Date: 02/14/07 Time: 11:02:57 CPU Time: 0 0: 7:37.16 ( 457.16 sec) Binary
2605     Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606     Date: 02/14/07 Time: 11:03:09 CPU Time: 0 0: 7:49.44 ( 469.44 sec) Binary
2608     Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609     Date: 02/14/07 Time: 11:03:22 CPU Time: 0 0: 8: 2.19 ( 482.19 sec) Binary
2611     Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612     Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0: 8:12.34 ( 492.34 sec) Binary
2614     Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615     Date: 02/14/07 Time: 11:03:42 CPU Time: 0 0: 8:22.66 ( 502.66 sec) Binary
2617     Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618     Date: 02/14/07 Time: 11:03:56 CPU Time: 0 0: 8:36.10 ( 516.10 sec) Binary
2620     Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621     Date: 02/14/07 Time: 11:04:03 CPU Time: 0 0: 8:43.75 ( 523.75 sec) Binary
2623     Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624     Date: 02/14/07 Time: 11:04:14 CPU Time: 0 0: 8:54.00 ( 534.00 sec) Binary
2626     Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627     Date: 02/14/07 Time: 11:04:26 CPU Time: 0 0: 9: 5.80 ( 545.80 sec) Binary
2629     Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630     Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 9:14.85 ( 554.85 sec) Binary
2632     Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633     Date: 02/14/07 Time: 11:04:39 CPU Time: 0 0: 9:19.38 ( 559.38 sec) Binary
2635     Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636     Date: 02/14/07 Time: 11:04:50 CPU Time: 0 0: 9:30.10 ( 570.10 sec) Binary
2638     Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639     Date: 02/14/07 Time: 11:04:55 CPU Time: 0 0: 9:35.07 ( 575.07 sec) Binary
2641     Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642     Date: 02/14/07 Time: 11:05:06 CPU Time: 0 0: 9:45.73 ( 585.73 sec) Binary
2644     Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645     Date: 02/14/07 Time: 11:05:15 CPU Time: 0 0: 9:54.78 ( 594.78 sec) Binary
2647     Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648     Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0:10: 0.26 ( 600.26 sec) Binary
2650     Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651     Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0:10: 7.72 ( 607.72 sec) Binary
2653     Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654     Date: 02/14/07 Time: 11:05:37 CPU Time: 0 0:10:17.24 ( 617.24 sec) Binary
2656     Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657     Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0:10:24.43 ( 624.43 sec) Binary
2659     Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660     Date: 02/14/07 Time: 11:05:51 CPU Time: 0 0:10:30.93 ( 630.93 sec) Binary
2662     Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663     Date: 02/14/07 Time: 11:05:57 CPU Time: 0 0:10:36.42 ( 636.42 sec) Binary
2666     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
2450     Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) ASCII
2452     Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453     Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) Binary
2455     Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456     Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 ( 34.70 sec) Binary
2458     Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459     Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 ( 38.00 sec) Binary
2461     Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462     Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 ( 42.45 sec) Binary
2464     Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465     Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 ( 48.11 sec) Binary
2467     Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468     Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 ( 53.27 sec) Binary
2470     Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2471     Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 ( 59.94 sec) Binary
2473     Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474     Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 ( 63.51 sec) Binary
2476     Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477     Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 ( 69.66 sec) Binary
2479     Time Step No. = 340 Elapsed Time = 3.652769E+04 days
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2480    Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 ( 75.10 sec) Binary
2482    Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483    Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
2485    Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486    Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 ( 81.59 sec) Binary
2488    Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489    Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 ( 85.10 sec) Binary
2491    Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492    Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 ( 92.48 sec) Binary
2494    Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495    Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 ( 101.94 sec) Binary
2497    Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498    Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
2500    Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501    Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 ( 112.56 sec) Binary
2503    Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504    Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 ( 120.20 sec) Binary
2506    Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507    Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 ( 126.55 sec) Binary
2509    Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510    Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 ( 129.99 sec) Binary
2512    Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513    Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 ( 136.66 sec) Binary
2515    Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516    Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 ( 144.39 sec) Binary
2518    Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519    Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
2521    Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522    Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 ( 155.09 sec) Binary
2524    Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525    Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 ( 163.67 sec) Binary
2527    Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528    Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 ( 171.84 sec) Binary
2530    Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531    Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 ( 177.41 sec) Binary
2533    Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534    Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 ( 181.41 sec) Binary
2536    Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537    Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 ( 187.32 sec) Binary
2539    Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540    Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 ( 196.43 sec) Binary
2542    Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543    Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 ( 202.20 sec) Binary
2545    Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546    Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 ( 206.39 sec) Binary
2548    Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549    Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 ( 212.85 sec) Binary
2551    Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552    Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 ( 222.09 sec) Binary
2554    Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555    Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 ( 229.64 sec) Binary
2557    Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558    Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 ( 235.16 sec) Binary
2560    Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561    Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 ( 242.23 sec) Binary
2563    Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564    Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 ( 246.46 sec) Binary
2566    Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567    Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 ( 249.04 sec) Binary
2569    Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570    Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 ( 250.71 sec) Binary
2572    Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573    Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 ( 254.70 sec) Binary
2575    Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576    Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 ( 262.52 sec) Binary
2578    Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579    Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 ( 267.53 sec) Binary
2581    Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582    Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 ( 276.26 sec) Binary
2584    Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585    Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 ( 284.48 sec) Binary
2587    Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588    Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 ( 294.62 sec) Binary
2590    Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591    Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 ( 299.77 sec) Binary
2593    Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
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 2594     Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 ( 307.80 sec) Binary
 2596     Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
 2597     Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 ( 314.48 sec) Binary
 2599     Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
 2600     Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 ( 321.81 sec) Binary
 2602     Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
 2603     Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 ( 328.16 sec) Binary
 2605     Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
 2606     Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 ( 336.94 sec) Binary
 2608     Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
 2609     Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 ( 346.00 sec) Binary
 2611     Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
 2612     Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 ( 353.21 sec) Binary
 2614     Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
 2615     Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 ( 360.55 sec) Binary
 2617     Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
 2618     Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 ( 370.21 sec) Binary
 2620     Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
 2621     Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 ( 375.94 sec) Binary
 2623     Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
 2624     Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 ( 383.60 sec) Binary
 2626     Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
 2627     Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 ( 392.43 sec) Binary
 2629     Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
 2630     Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 ( 399.16 sec) Binary
 2632     Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
 2633     Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 ( 402.55 sec) Binary
 2635     Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
 2636     Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 ( 410.59 sec) Binary
 2638     Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
 2639     Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 ( 414.29 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
 2642     Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 ( 422.22 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
 2645     Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 ( 428.96 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
 2648     Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 ( 433.09 sec) Binary
 2650     Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
 2651     Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 ( 438.70 sec) Binary
 2653     Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
 2654     Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 ( 445.83 sec) Binary
 2656     Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
 2657     Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 ( 451.23 sec) Binary
 2659     Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
 2660     Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 ( 455.99 sec) Binary
 2662     Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
 2663     Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 ( 460.13 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
 2682     CPU Time (this time step) = 0.27 sec = 0.00008 hr
 2683     CPU Time (total for run) = 641.40 sec = 0.17817 hr
 2684    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 2682     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2683     CPU Time (total for run) = 463.86 sec = 0.12885 hr
 2684    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1
 3360     Date: 02/14/07 Time: 11:06:02 CPU Time: 0 0:10:41.44 ( 641.44 sec) ASCII
 3362     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 11:06:02 CPU Time: 0 0:10:41.44 ( 641.44 sec) Binary
 3368     ******************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 11:06:02 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3371     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 3360     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
 3362     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
 3368     ******************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
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 3370     * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 160

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES40_TEST7_V008.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
```

BF2_QB0600_ES40_TEST7_V009_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
    3     ** Begun on: 02/14/07 at 10:57:31 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
    3     ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
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  86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
  87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
 1772    CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773    CPU Time (total for run) = 82.18 sec = 0.02283 hr
 1774    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1772    CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773    CPU Time (total for run) = 59.73 sec = 0.01659 hr
 1774    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
 2450    Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 1:22.19 ( 82.19 sec) ASCII
 2452    Time Step No. = 266 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:58:54 CPU Time: 0 0: 1:22.19 ( 82.19 sec) Binary
 2455    Time Step No. = 280 Elapsed Time = 1.358585E-02 days
 2456    Date: 02/14/07 Time: 10:59:01 CPU Time: 0 0: 1:29.14 ( 89.14 sec) Binary
 2458    Time Step No. = 300 Elapsed Time = 8.176210E-01 days
 2459    Date: 02/14/07 Time: 10:59:06 CPU Time: 0 0: 1:34.78 ( 94.78 sec) Binary
 2461    Time Step No. = 320 Elapsed Time = 2.056227E+01 days
 2462    Date: 02/14/07 Time: 10:59:11 CPU Time: 0 0: 1:39.04 ( 99.04 sec) Binary
 2464    Time Step No. = 340 Elapsed Time = 3.883849E+02 days
 2465    Date: 02/14/07 Time: 10:59:16 CPU Time: 0 0: 1:44.48 ( 104.48 sec) Binary
 2467    Time Step No. = 360 Elapsed Time = 2.773294E+03 days
 2468    Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 1:52.49 ( 112.49 sec) Binary
 2470    Time Step No. = 380 Elapsed Time = 6.744221E+03 days
 2471    Date: 02/14/07 Time: 10:59:42 CPU Time: 0 0: 2:10.07 ( 130.07 sec) Binary
 2473    Time Step No. = 400 Elapsed Time = 6.767595E+03 days
 2474    Date: 02/14/07 Time: 10:59:45 CPU Time: 0 0: 2:12.93 ( 132.93 sec) Binary
 2476    Time Step No. = 420 Elapsed Time = 6.921045E+03 days
 2477    Date: 02/14/07 Time: 10:59:55 CPU Time: 0 0: 2:23.46 ( 143.46 sec) Binary
 2479    Time Step No. = 440 Elapsed Time = 7.006907E+03 days
 2480    Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0: 2:27.13 ( 147.13 sec) Binary
 2482    Time Step No. = 460 Elapsed Time = 7.220026E+03 days
 2483    Date: 02/14/07 Time: 11:00:10 CPU Time: 0 0: 2:38.47 ( 158.47 sec) Binary
 2485    Time Step No. = 480 Elapsed Time = 7.377731E+03 days
 2486    Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 2:42.58 ( 162.58 sec) Binary
 2488    Time Step No. = 500 Elapsed Time = 8.413059E+03 days
 2489    Date: 02/14/07 Time: 11:00:24 CPU Time: 0 0: 2:52.07 ( 172.07 sec) Binary
 2491    Time Step No. = 520 Elapsed Time = 8.706621E+03 days
 2492    Date: 02/14/07 Time: 11:00:35 CPU Time: 0 0: 3: 3.41 ( 183.41 sec) Binary
 2494    Time Step No. = 540 Elapsed Time = 8.731156E+03 days
 2495    Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 3: 6.45 ( 186.45 sec) Binary
 2497    Time Step No. = 560 Elapsed Time = 8.783097E+03 days
 2498    Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0: 3:16.68 ( 196.68 sec) Binary
 2500    Time Step No. = 580 Elapsed Time = 8.873224E+03 days
 2501    Date: 02/14/07 Time: 11:00:52 CPU Time: 0 0: 3:20.51 ( 200.51 sec) Binary
 2503    Time Step No. = 600 Elapsed Time = 8.967808E+03 days
 2504    Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 3:30.69 ( 210.69 sec) Binary
 2506    Time Step No. = 620 Elapsed Time = 9.629958E+03 days
 2507    Date: 02/14/07 Time: 11:01:07 CPU Time: 0 0: 3:35.50 ( 215.50 sec) Binary
 2509    Time Step No. = 640 Elapsed Time = 9.720759E+03 days
 2510    Date: 02/14/07 Time: 11:01:18 CPU Time: 0 0: 3:46.67 ( 226.67 sec) Binary
 2512    Time Step No. = 660 Elapsed Time = 9.817097E+03 days
 2513    Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 3:58.33 ( 238.33 sec) Binary
 2515    Time Step No. = 680 Elapsed Time = 9.829974E+03 days
 2516    Date: 02/14/07 Time: 11:01:33 CPU Time: 0 0: 4: 1.19 ( 241.19 sec) Binary
 2518    Time Step No. = 700 Elapsed Time = 9.879586E+03 days
 2519    Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 4:11.00 ( 251.00 sec) Binary
 2521    Time Step No. = 720 Elapsed Time = 9.926888E+03 days
 2522    Date: 02/14/07 Time: 11:01:46 CPU Time: 0 0: 4:14.32 ( 254.32 sec) Binary
 2524    Time Step No. = 740 Elapsed Time = 9.955795E+03 days
 2525    Date: 02/14/07 Time: 11:01:56 CPU Time: 0 0: 4:24.31 ( 264.31 sec) Binary
 2527    Time Step No. = 760 Elapsed Time = 1.004381E+04 days
 2528    Date: 02/14/07 Time: 11:02:08 CPU Time: 0 0: 4:35.85 ( 275.85 sec) Binary
 2530    Time Step No. = 780 Elapsed Time = 1.005117E+04 days
 2531    Date: 02/14/07 Time: 11:02:11 CPU Time: 0 0: 4:38.37 ( 278.37 sec) Binary
 2533    Time Step No. = 800 Elapsed Time = 1.011334E+04 days
 2534    Date: 02/14/07 Time: 11:02:21 CPU Time: 0 0: 4:48.88 ( 288.88 sec) Binary
 2536    Time Step No. = 820 Elapsed Time = 1.014038E+04 days
 2537    Date: 02/14/07 Time: 11:02:24 CPU Time: 0 0: 4:51.91 ( 291.91 sec) Binary
 2539    Time Step No. = 840 Elapsed Time = 1.021957E+04 days
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2540    Date: 02/14/07 Time: 11:02:34 CPU Time: 0 0: 5: 1.89 ( 301.89 sec) Binary
2542    Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543    Date: 02/14/07 Time: 11:02:39 CPU Time: 0 0: 5: 6.26 ( 306.26 sec) Binary
2545    Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546    Date: 02/14/07 Time: 11:02:46 CPU Time: 0 0: 5:13.56 ( 313.56 sec) Binary
2548    Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549    Date: 02/14/07 Time: 11:03:01 CPU Time: 0 0: 5:28.91 ( 328.91 sec) Binary
2551    Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552    Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0: 5:32.77 ( 332.77 sec) Binary
2554    Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555    Date: 02/14/07 Time: 11:03:13 CPU Time: 0 0: 5:40.53 ( 340.53 sec) Binary
2557    Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558    Date: 02/14/07 Time: 11:03:29 CPU Time: 0 0: 5:56.24 ( 356.24 sec) Binary
2560    Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561    Date: 02/14/07 Time: 11:03:33 CPU Time: 0 0: 6: 0.44 ( 360.44 sec) Binary
2563    Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564    Date: 02/14/07 Time: 11:03:50 CPU Time: 0 0: 6:17.25 ( 377.25 sec) Binary
2566    Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567    Date: 02/14/07 Time: 11:03:53 CPU Time: 0 0: 6:20.03 ( 380.03 sec) Binary
2569    Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570    Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 6:25.45 ( 385.45 sec) Binary
2572    Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573    Date: 02/14/07 Time: 11:04:13 CPU Time: 0 0: 6:40.22 ( 400.22 sec) Binary
2575    Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576    Date: 02/14/07 Time: 11:04:25 CPU Time: 0 0: 6:52.05 ( 412.05 sec) Binary
2578    Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579    Date: 02/14/07 Time: 11:04:27 CPU Time: 0 0: 6:54.45 ( 414.45 sec) Binary
2581    Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582    Date: 02/14/07 Time: 11:04:32 CPU Time: 0 0: 6:59.27 ( 419.27 sec) Binary
2584    Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585    Date: 02/14/07 Time: 11:04:44 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
2587    Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588    Date: 02/14/07 Time: 11:04:54 CPU Time: 0 0: 7:21.35 ( 441.35 sec) Binary
2590    Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591    Date: 02/14/07 Time: 11:05:00 CPU Time: 0 0: 7:26.87 ( 446.87 sec) Binary
2593    Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594    Date: 02/14/07 Time: 11:05:16 CPU Time: 0 0: 7:43.21 ( 463.21 sec) Binary
2596    Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597    Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0: 7:47.14 ( 467.14 sec) Binary
2599    Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600    Date: 02/14/07 Time: 11:05:27 CPU Time: 0 0: 7:54.18 ( 474.18 sec) Binary
2602    Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603    Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0: 8:10.43 ( 490.43 sec) Binary
2605    Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606    Date: 02/14/07 Time: 11:05:48 CPU Time: 0 0: 8:14.88 ( 494.88 sec) Binary
2608    Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609    Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 8:25.48 ( 505.48 sec) Binary
2611    Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612    Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 8:36.21 ( 516.21 sec) Binary
2614    Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615    Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 8:39.43 ( 519.43 sec) Binary
2617    Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618    Date: 02/14/07 Time: 11:06:25 CPU Time: 0 0: 8:51.48 ( 531.48 sec) Binary
2620    Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621    Date: 02/14/07 Time: 11:06:29 CPU Time: 0 0: 8:55.23 ( 535.23 sec) Binary
2623    Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624    Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 9: 5.86 ( 545.86 sec) Binary
2626    Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627    Date: 02/14/07 Time: 11:06:51 CPU Time: 0 0: 9:17.41 ( 557.41 sec) Binary
2629    Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630    Date: 02/14/07 Time: 11:06:55 CPU Time: 0 0: 9:21.15 ( 561.15 sec) Binary
2632    Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633    Date: 02/14/07 Time: 11:06:58 CPU Time: 0 0: 9:24.90 ( 564.90 sec) Binary
2635    Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636    Date: 02/14/07 Time: 11:07:03 CPU Time: 0 0: 9:29.10 ( 569.10 sec) Binary
2638    Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639    Date: 02/14/07 Time: 11:07:07 CPU Time: 0 0: 9:33.48 ( 573.48 sec) Binary
2641    Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642    Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 9:37.97 ( 577.97 sec) Binary
2644    Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645    Date: 02/14/07 Time: 11:07:16 CPU Time: 0 0: 9:42.09 ( 582.09 sec) Binary
2647    Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648    Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0: 9:45.60 ( 585.60 sec) Binary
2650    Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651    Date: 02/14/07 Time: 11:07:30 CPU Time: 0 0: 9:56.27 ( 596.27 sec) Binary
2653    Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
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2654    Date: 02/14/07 Time: 11:07:34 CPU Time: 0 0:10: 0.64 ( 600.64 sec) Binary
2656    Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657    Date: 02/14/07 Time: 11:07:48 CPU Time: 0 0:10:14.23 ( 614.23 sec) Binary
2659    Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660    Date: 02/14/07 Time: 11:07:51 CPU Time: 0 0:10:17.44 ( 617.44 sec) Binary
2662    Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663    Date: 02/14/07 Time: 11:08:02 CPU Time: 0 0:10:28.65 ( 628.65 sec) Binary
2665    Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666    Date: 02/14/07 Time: 11:08:07 CPU Time: 0 0:10:33.02 ( 633.02 sec) Binary
2668    Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669    Date: 02/14/07 Time: 11:08:18 CPU Time: 0 0:10:44.24 ( 644.24 sec) Binary
2671    Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672    Date: 02/14/07 Time: 11:08:23 CPU Time: 0 0:10:48.98 ( 648.98 sec) Binary
2674    Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675    Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0:11: 0.56 ( 660.56 sec) Binary
2677    Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678    Date: 02/14/07 Time: 11:08:39 CPU Time: 0 0:11: 5.05 ( 665.05 sec) Binary
2680    Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681    Date: 02/14/07 Time: 11:08:51 CPU Time: 0 0:11:17.34 ( 677.34 sec) Binary
2683    Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684    Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0:11:36.85 ( 696.85 sec) Binary
2686    Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687    Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0:11:39.72 ( 699.72 sec) Binary
2689    Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690    Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0:11:45.22 ( 705.22 sec) Binary
2692    Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693    Date: 02/14/07 Time: 11:09:34 CPU Time: 0 0:12: 0.05 ( 720.05 sec) Binary
2695    Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696    Date: 02/14/07 Time: 11:09:38 CPU Time: 0 0:12: 4.43 ( 724.43 sec) Binary
2698    Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699    Date: 02/14/07 Time: 11:09:46 CPU Time: 0 0:12:12.49 ( 732.49 sec) Binary
2701    Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702    Date: 02/14/07 Time: 11:10:03 CPU Time: 0 0:12:28.88 ( 748.88 sec) Binary
2704    Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705    Date: 02/14/07 Time: 11:10:07 CPU Time: 0 0:12:33.36 ( 753.36 sec) Binary
2707    Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708    Date: 02/14/07 Time: 11:10:18 CPU Time: 0 0:12:44.05 ( 764.05 sec) Binary
2710    Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2711    Date: 02/14/07 Time: 11:10:29 CPU Time: 0 0:12:55.58 ( 775.58 sec) Binary
2713    Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714    Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0:12:58.70 ( 778.70 sec) Binary
2716    Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717    Date: 02/14/07 Time: 11:10:39 CPU Time: 0 0:13: 5.32 ( 785.32 sec) Binary
2719    Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720    Date: 02/14/07 Time: 11:10:53 CPU Time: 0 0:13:18.74 ( 798.74 sec) Binary
2722    Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2723    Date: 02/14/07 Time: 11:11:05 CPU Time: 0 0:13:30.93 ( 810.93 sec) Binary
2725    Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726    Date: 02/14/07 Time: 11:11:08 CPU Time: 0 0:13:33.69 ( 813.69 sec) Binary
2728    Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729    Date: 02/14/07 Time: 11:11:18 CPU Time: 0 0:13:43.59 ( 823.59 sec) Binary
2731    Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732    Date: 02/14/07 Time: 11:11:22 CPU Time: 0 0:13:47.59 ( 827.59 sec) Binary
2734    Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735    Date: 02/14/07 Time: 11:11:32 CPU Time: 0 0:13:58.09 ( 838.09 sec) Binary
2737    Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2738    Date: 02/14/07 Time: 11:11:37 CPU Time: 0 0:14: 2.74 ( 842.74 sec) Binary
2740    Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741    Date: 02/14/07 Time: 11:11:46 CPU Time: 0 0:14:11.76 ( 851.76 sec) Binary
2743    Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744    Date: 02/14/07 Time: 11:12:04 CPU Time: 0 0:14:29.97 ( 869.97 sec) Binary
2746    Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747    Date: 02/14/07 Time: 11:12:08 CPU Time: 0 0:14:33.56 ( 873.56 sec) Binary
2749    Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750    Date: 02/14/07 Time: 11:12:14 CPU Time: 0 0:14:39.73 ( 879.73 sec) Binary
2752    Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753    Date: 02/14/07 Time: 11:12:30 CPU Time: 0 0:14:56.03 ( 896.03 sec) Binary
2755    Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756    Date: 02/14/07 Time: 11:12:35 CPU Time: 0 0:15: 0.56 ( 900.56 sec) Binary
2758    Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759    Date: 02/14/07 Time: 11:12:45 CPU Time: 0 0:15:10.57 ( 910.57 sec) Binary
2761    Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762    Date: 02/14/07 Time: 11:12:50 CPU Time: 0 0:15:15.76 ( 915.76 sec) Binary
2764    Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765    Date: 02/14/07 Time: 11:13:08 CPU Time: 0 0:15:34.19 ( 934.19 sec) Binary
2767    Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
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2768    Date: 02/14/07 Time: 11:13:12 CPU Time: 0 0:15:37.76 ( 937.76 sec) Binary
2770    Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771    Date: 02/14/07 Time: 11:13:22 CPU Time: 0 0:15:47.46 ( 947.46 sec) Binary
2773    Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774    Date: 02/14/07 Time: 11:13:26 CPU Time: 0 0:15:52.19 ( 952.19 sec) Binary
2776    Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777    Date: 02/14/07 Time: 11:13:38 CPU Time: 0 0:16: 3.31 ( 963.31 sec) Binary
2779    Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780    Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0:16:14.13 ( 974.13 sec) Binary
2782    Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783    Date: 02/14/07 Time: 11:13:52 CPU Time: 0 0:16:17.87 ( 977.87 sec) Binary
2785    Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786    Date: 02/14/07 Time: 11:13:58 CPU Time: 0 0:16:24.10 ( 984.10 sec) Binary
2788    Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789    Date: 02/14/07 Time: 11:14:11 CPU Time: 0 0:16:36.66 ( 996.66 sec) Binary
2791    Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792    Date: 02/14/07 Time: 11:14:27 CPU Time: 0 0:16:52.34 ( 1012.34 sec) Binary
2794    Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795    Date: 02/14/07 Time: 11:14:31 CPU Time: 0 0:16:56.80 ( 1016.80 sec) Binary
2797    Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798    Date: 02/14/07 Time: 11:14:39 CPU Time: 0 0:17: 4.94 ( 1024.94 sec) Binary
2800    Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801    Date: 02/14/07 Time: 11:14:54 CPU Time: 0 0:17:19.94 ( 1039.94 sec) Binary
2803    Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804    Date: 02/14/07 Time: 11:15:03 CPU Time: 0 0:17:28.91 ( 1048.91 sec) Binary
2806    Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807    Date: 02/14/07 Time: 11:15:13 CPU Time: 0 0:17:38.25 ( 1058.25 sec) Binary
2809    Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810    Date: 02/14/07 Time: 11:15:23 CPU Time: 0 0:17:48.75 ( 1068.75 sec) Binary
2812    Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813    Date: 02/14/07 Time: 11:15:36 CPU Time: 0 0:18: 1.92 ( 1081.92 sec) Binary
2815    Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816    Date: 02/14/07 Time: 11:15:45 CPU Time: 0 0:18:10.87 ( 1090.87 sec) Binary
2818    Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819    Date: 02/14/07 Time: 11:15:56 CPU Time: 0 0:18:21.64 ( 1101.64 sec) Binary
2821    Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822    Date: 02/14/07 Time: 11:16:10 CPU Time: 0 0:18:35.26 ( 1115.26 sec) Binary
2824    Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825    Date: 02/14/07 Time: 11:16:23 CPU Time: 0 0:18:48.05 ( 1128.05 sec) Binary
2827    Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828    Date: 02/14/07 Time: 11:16:37 CPU Time: 0 0:19: 2.60 ( 1142.60 sec) Binary
2830    Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831    Date: 02/14/07 Time: 11:16:51 CPU Time: 0 0:19:15.94 ( 1155.94 sec) Binary
2833    Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834    Date: 02/14/07 Time: 11:17:03 CPU Time: 0 0:19:28.05 ( 1168.05 sec) Binary
2836    Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837    Date: 02/14/07 Time: 11:17:16 CPU Time: 0 0:19:41.00 ( 1181.00 sec) Binary
2839    Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840    Date: 02/14/07 Time: 11:17:28 CPU Time: 0 0:19:53.65 ( 1193.65 sec) Binary
2842    Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843    Date: 02/14/07 Time: 11:17:40 CPU Time: 0 0:20: 5.55 ( 1205.55 sec) Binary
2845    Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846    Date: 02/14/07 Time: 11:17:55 CPU Time: 0 0:20:20.45 ( 1220.45 sec) Binary
2848    Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849    Date: 02/14/07 Time: 11:18:09 CPU Time: 0 0:20:34.49 ( 1234.49 sec) Binary
2851    Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852    Date: 02/14/07 Time: 11:18:21 CPU Time: 0 0:20:46.37 ( 1246.37 sec) Binary
2854    Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855    Date: 02/14/07 Time: 11:18:32 CPU Time: 0 0:20:57.56 ( 1257.56 sec) Binary
2857    Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858    Date: 02/14/07 Time: 11:18:42 CPU Time: 0 0:21: 7.67 ( 1267.67 sec) Binary
2860    Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861    Date: 02/14/07 Time: 11:18:53 CPU Time: 0 0:21:18.09 ( 1278.09 sec) Binary
2863    Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864    Date: 02/14/07 Time: 11:19:03 CPU Time: 0 0:21:27.97 ( 1287.97 sec) Binary
2866    Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867    Date: 02/14/07 Time: 11:19:12 CPU Time: 0 0:21:37.16 ( 1297.16 sec) Binary
2869    Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870    Date: 02/14/07 Time: 11:19:22 CPU Time: 0 0:21:47.08 ( 1307.08 sec) Binary
2872    Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873    Date: 02/14/07 Time: 11:19:32 CPU Time: 0 0:21:56.31 ( 1316.31 sec) Binary
2875    Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876    Date: 02/14/07 Time: 11:19:42 CPU Time: 0 0:22: 6.24 ( 1326.24 sec) Binary
2878    Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879    Date: 02/14/07 Time: 11:19:51 CPU Time: 0 0:22:15.47 ( 1335.47 sec) Binary
2881    Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
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2882    Date: 02/14/07 Time: 11:20:00 CPU Time: 0 0:22:25.02 ( 1345.02 sec) Binary
2884    Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885    Date: 02/14/07 Time: 11:20:09 CPU Time: 0 0:22:33.30 ( 1353.30 sec) Binary
2887    Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888    Date: 02/14/07 Time: 11:20:18 CPU Time: 0 0:22:42.48 ( 1362.48 sec) Binary
2890    Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891    Date: 02/14/07 Time: 11:20:26 CPU Time: 0 0:22:50.61 ( 1370.61 sec) Binary
2893    Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894    Date: 02/14/07 Time: 11:20:35 CPU Time: 0 0:22:59.24 ( 1379.24 sec) Binary
2896    Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897    Date: 02/14/07 Time: 11:20:43 CPU Time: 0 0:23: 7.17 ( 1387.17 sec) Binary
2899    Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900    Date: 02/14/07 Time: 11:20:51 CPU Time: 0 0:23:15.26 ( 1395.26 sec) Binary
2902    Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903    Date: 02/14/07 Time: 11:21:00 CPU Time: 0 0:23:23.96 ( 1403.96 sec) Binary
2905    Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906    Date: 02/14/07 Time: 11:21:08 CPU Time: 0 0:23:31.91 ( 1411.91 sec) Binary
2908    Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909    Date: 02/14/07 Time: 11:21:16 CPU Time: 0 0:23:40.56 ( 1420.56 sec) Binary
2911    Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912    Date: 02/14/07 Time: 11:21:24 CPU Time: 0 0:23:48.57 ( 1428.57 sec) Binary
2914    Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915    Date: 02/14/07 Time: 11:21:33 CPU Time: 0 0:23:57.27 ( 1437.27 sec) Binary
2917    Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918    Date: 02/14/07 Time: 11:21:41 CPU Time: 0 0:24: 5.23 ( 1445.23 sec) Binary
2920    Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921    Date: 02/14/07 Time: 11:21:49 CPU Time: 0 0:24:13.19 ( 1453.19 sec) Binary
2923    Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924    Date: 02/14/07 Time: 11:21:58 CPU Time: 0 0:24:21.87 ( 1461.87 sec) Binary
2926    Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927    Date: 02/14/07 Time: 11:22:05 CPU Time: 0 0:24:29.81 ( 1469.81 sec) Binary
2929    Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930    Date: 02/14/07 Time: 11:22:14 CPU Time: 0 0:24:38.50 ( 1478.50 sec) Binary
2932    Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933    Date: 02/14/07 Time: 11:22:22 CPU Time: 0 0:24:46.45 ( 1486.45 sec) Binary
2935    Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936    Date: 02/14/07 Time: 11:22:31 CPU Time: 0 0:24:55.13 ( 1495.13 sec) Binary
2938    Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939    Date: 02/14/07 Time: 11:22:39 CPU Time: 0 0:25: 3.08 ( 1503.08 sec) Binary
2941    Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942    Date: 02/14/07 Time: 11:22:47 CPU Time: 0 0:25:11.06 ( 1511.06 sec) Binary
2944    Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945    Date: 02/14/07 Time: 11:22:56 CPU Time: 0 0:25:19.74 ( 1519.74 sec) Binary
2947    Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948    Date: 02/14/07 Time: 11:23:04 CPU Time: 0 0:25:27.68 ( 1527.68 sec) Binary
2950    Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951    Date: 02/14/07 Time: 11:23:12 CPU Time: 0 0:25:36.33 ( 1536.33 sec) Binary
2953    Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954    Date: 02/14/07 Time: 11:23:20 CPU Time: 0 0:25:44.28 ( 1544.28 sec) Binary
2956    Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957    Date: 02/14/07 Time: 11:23:28 CPU Time: 0 0:25:52.22 ( 1552.22 sec) Binary
2959    Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960    Date: 02/14/07 Time: 11:23:37 CPU Time: 0 0:26: 0.87 ( 1560.87 sec) Binary
2962    Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963    Date: 02/14/07 Time: 11:23:45 CPU Time: 0 0:26: 8.81 ( 1568.81 sec) Binary
2965    Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966    Date: 02/14/07 Time: 11:23:54 CPU Time: 0 0:26:17.68 ( 1577.68 sec) Binary
2968    Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969    Date: 02/14/07 Time: 11:24:02 CPU Time: 0 0:26:25.60 ( 1585.60 sec) Binary
2971    Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972    Date: 02/14/07 Time: 11:24:10 CPU Time: 0 0:26:34.24 ( 1594.24 sec) Binary
2974    Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975    Date: 02/14/07 Time: 11:24:18 CPU Time: 0 0:26:42.19 ( 1602.19 sec) Binary
2977    Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978    Date: 02/14/07 Time: 11:24:26 CPU Time: 0 0:26:50.17 ( 1610.17 sec) Binary
2980    Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981    Date: 02/14/07 Time: 11:24:35 CPU Time: 0 0:26:58.83 ( 1618.83 sec) Binary
2983    Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984    Date: 02/14/07 Time: 11:24:43 CPU Time: 0 0:27: 6.79 ( 1626.79 sec) Binary
2986    Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987    Date: 02/14/07 Time: 11:24:52 CPU Time: 0 0:27:15.47 ( 1635.47 sec) Binary
2989    Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990    Date: 02/14/07 Time: 11:25:00 CPU Time: 0 0:27:23.42 ( 1643.42 sec) Binary
2992    Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993    Date: 02/14/07 Time: 11:25:08 CPU Time: 0 0:27:31.37 ( 1651.37 sec) Binary
2995    Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
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2996    Date: 02/14/07 Time: 11:25:16 CPU Time: 0 0:27:40.03 ( 1660.03 sec) Binary
2998    Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999    Date: 02/14/07 Time: 11:25:24 CPU Time: 0 0:27:48.03 ( 1668.03 sec) Binary
3001    Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002    Date: 02/14/07 Time: 11:25:33 CPU Time: 0 0:27:56.72 ( 1676.72 sec) Binary
3004    Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005    Date: 02/14/07 Time: 11:25:41 CPU Time: 0 0:28: 4.70 ( 1684.70 sec) Binary
3007    Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008    Date: 02/14/07 Time: 11:25:50 CPU Time: 0 0:28:13.40 ( 1693.40 sec) Binary
3010    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011    Date: 02/14/07 Time: 11:25:58 CPU Time: 0 0:28:21.36 ( 1701.36 sec) Binary
3013    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014    Date: 02/14/07 Time: 11:26:06 CPU Time: 0 0:28:29.50 ( 1709.50 sec) Binary
3016    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017    Date: 02/14/07 Time: 11:26:15 CPU Time: 0 0:28:38.17 ( 1718.17 sec) Binary
3019    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020    Date: 02/14/07 Time: 11:26:22 CPU Time: 0 0:28:46.11 ( 1726.11 sec) Binary
3022    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023    Date: 02/14/07 Time: 11:26:30 CPU Time: 0 0:28:54.12 ( 1734.12 sec) Binary
3025    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026    Date: 02/14/07 Time: 11:26:39 CPU Time: 0 0:29: 2.82 ( 1742.82 sec) Binary
3028    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029    Date: 02/14/07 Time: 11:26:47 CPU Time: 0 0:29:10.79 ( 1750.79 sec) Binary
3031    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032    Date: 02/14/07 Time: 11:26:56 CPU Time: 0 0:29:19.05 ( 1759.05 sec) Binary
3034    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035    Date: 02/14/07 Time: 11:27:05 CPU Time: 0 0:29:28.06 ( 1768.06 sec) Binary
3037    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038    Date: 02/14/07 Time: 11:27:14 CPU Time: 0 0:29:37.19 ( 1777.19 sec) Binary
3040    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041    Date: 02/14/07 Time: 11:27:26 CPU Time: 0 0:29:48.98 ( 1788.98 sec) Binary
3043    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044    Date: 02/14/07 Time: 11:27:36 CPU Time: 0 0:29:59.30 ( 1799.30 sec) Binary
3046    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047    Date: 02/14/07 Time: 11:27:55 CPU Time: 0 0:30:17.95 ( 1817.95 sec) Binary
3049    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050    Date: 02/14/07 Time: 11:28:03 CPU Time: 0 0:30:26.61 ( 1826.61 sec) Binary
3052    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053    Date: 02/14/07 Time: 11:28:11 CPU Time: 0 0:30:34.54 ( 1834.54 sec) Binary
3055    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056    Date: 02/14/07 Time: 11:28:19 CPU Time: 0 0:30:42.51 ( 1842.51 sec) Binary
3058    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059    Date: 02/14/07 Time: 11:28:28 CPU Time: 0 0:30:51.15 ( 1851.15 sec) Binary
3061    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062    Date: 02/14/07 Time: 11:28:36 CPU Time: 0 0:30:59.08 ( 1859.08 sec) Binary
3064    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065    Date: 02/14/07 Time: 11:28:44 CPU Time: 0 0:31: 7.04 ( 1867.04 sec) Binary
3067    Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068    Date: 02/14/07 Time: 11:28:53 CPU Time: 0 0:31:15.70 ( 1875.70 sec) Binary
3070    Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071    Date: 02/14/07 Time: 11:29:04 CPU Time: 0 0:31:27.15 ( 1887.15 sec) Binary
3073    Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074    Date: 02/14/07 Time: 11:29:06 CPU Time: 0 0:31:29.56 ( 1889.56 sec) Binary
3076    Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077    Date: 02/14/07 Time: 11:29:11 CPU Time: 0 0:31:34.40 ( 1894.40 sec) Binary
3079    Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080    Date: 02/14/07 Time: 11:29:27 CPU Time: 0 0:31:50.35 ( 1910.35 sec) Binary
3082    Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083    Date: 02/14/07 Time: 11:29:32 CPU Time: 0 0:31:55.07 ( 1915.07 sec) Binary
3085    Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086    Date: 02/14/07 Time: 11:29:49 CPU Time: 0 0:32:11.77 ( 1931.77 sec) Binary
3088    Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089    Date: 02/14/07 Time: 11:29:55 CPU Time: 0 0:32:18.28 ( 1938.28 sec) Binary
3091    Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092    Date: 02/14/07 Time: 11:30:07 CPU Time: 0 0:32:30.26 ( 1950.26 sec) Binary
3094    Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095    Date: 02/14/07 Time: 11:30:20 CPU Time: 0 0:32:43.24 ( 1963.24 sec) Binary
3097    Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098    Date: 02/14/07 Time: 11:30:31 CPU Time: 0 0:32:54.44 ( 1974.44 sec) Binary
3100    Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101    Date: 02/14/07 Time: 11:30:38 CPU Time: 0 0:33: 0.95 ( 1980.95 sec) Binary
3103    Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104    Date: 02/14/07 Time: 11:30:50 CPU Time: 0 0:33:12.50 ( 1992.50 sec) Binary
3106    Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107    Date: 02/14/07 Time: 11:31:04 CPU Time: 0 0:33:26.57 ( 2006.57 sec) Binary
3109    Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
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3110    Date: 02/14/07 Time: 11:31:16 CPU Time: 0 0:33:38.44 ( 2018.44 sec) Binary
3112    Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113    Date: 02/14/07 Time: 11:31:27 CPU Time: 0 0:33:49.90 ( 2029.90 sec) Binary
3115    Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116    Date: 02/14/07 Time: 11:31:39 CPU Time: 0 0:34: 2.23 ( 2042.23 sec) Binary
3118    Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119    Date: 02/14/07 Time: 11:31:51 CPU Time: 0 0:34:13.59 ( 2053.59 sec) Binary
3121    Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122    Date: 02/14/07 Time: 11:32:03 CPU Time: 0 0:34:25.81 ( 2065.81 sec) Binary
3124    Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125    Date: 02/14/07 Time: 11:32:13 CPU Time: 0 0:34:36.08 ( 2076.08 sec) Binary
3127    Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128    Date: 02/14/07 Time: 11:32:24 CPU Time: 0 0:34:46.32 ( 2086.32 sec) Binary
3130    Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131    Date: 02/14/07 Time: 11:32:35 CPU Time: 0 0:34:57.36 ( 2097.36 sec) Binary
3133    Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134    Date: 02/14/07 Time: 11:32:47 CPU Time: 0 0:35:10.26 ( 2110.26 sec) Binary
3136    Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137    Date: 02/14/07 Time: 11:32:57 CPU Time: 0 0:35:19.35 ( 2119.35 sec) Binary
3139    Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140    Date: 02/14/07 Time: 11:33:05 CPU Time: 0 0:35:27.31 ( 2127.31 sec) Binary
3142    Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143    Date: 02/14/07 Time: 11:33:15 CPU Time: 0 0:35:37.82 ( 2137.82 sec) Binary
3145    Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146    Date: 02/14/07 Time: 11:33:19 CPU Time: 0 0:35:41.46 ( 2141.46 sec) Binary
3148    Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149    Date: 02/14/07 Time: 11:33:23 CPU Time: 0 0:35:45.53 ( 2145.53 sec) Binary
3151    Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152    Date: 02/14/07 Time: 11:33:31 CPU Time: 0 0:35:54.01 ( 2154.01 sec) Binary
3154    Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155    Date: 02/14/07 Time: 11:33:41 CPU Time: 0 0:36: 3.56 ( 2163.56 sec) Binary
3157    Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158    Date: 02/14/07 Time: 11:33:43 CPU Time: 0 0:36: 5.71 ( 2165.71 sec) Binary
3160    Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161    Date: 02/14/07 Time: 11:33:47 CPU Time: 0 0:36: 9.92 ( 2169.92 sec) Binary
3163    Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164    Date: 02/14/07 Time: 11:33:57 CPU Time: 0 0:36:19.63 ( 2179.63 sec) Binary
3166    Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167    Date: 02/14/07 Time: 11:34:06 CPU Time: 0 0:36:28.85 ( 2188.85 sec) Binary
3169    Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170    Date: 02/14/07 Time: 11:34:16 CPU Time: 0 0:36:38.98 ( 2198.98 sec) Binary
3172    Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173    Date: 02/14/07 Time: 11:34:27 CPU Time: 0 0:36:49.61 ( 2209.61 sec) Binary
3175    Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176    Date: 02/14/07 Time: 11:34:37 CPU Time: 0 0:36:59.18 ( 2219.18 sec) Binary
3178    Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179    Date: 02/14/07 Time: 11:34:45 CPU Time: 0 0:37: 7.51 ( 2227.51 sec) Binary
3181    Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182    Date: 02/14/07 Time: 11:34:54 CPU Time: 0 0:37:16.65 ( 2236.65 sec) Binary
3184    Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185    Date: 02/14/07 Time: 11:35:08 CPU Time: 0 0:37:30.86 ( 2250.86 sec) Binary
3187    Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188    Date: 02/14/07 Time: 11:35:13 CPU Time: 0 0:37:35.83 ( 2255.83 sec) Binary
3190    Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191    Date: 02/14/07 Time: 11:35:22 CPU Time: 0 0:37:44.12 ( 2264.12 sec) Binary
3193    Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194    Date: 02/14/07 Time: 11:35:34 CPU Time: 0 0:37:56.18 ( 2276.18 sec) Binary
3196    Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197    Date: 02/14/07 Time: 11:35:42 CPU Time: 0 0:38: 4.10 ( 2284.10 sec) Binary
3199    Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200    Date: 02/14/07 Time: 11:35:50 CPU Time: 0 0:38:12.48 ( 2292.48 sec) Binary
3202    Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203    Date: 02/14/07 Time: 11:36:02 CPU Time: 0 0:38:23.92 ( 2303.92 sec) Binary
3205    Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206    Date: 02/14/07 Time: 11:36:13 CPU Time: 0 0:38:35.72 ( 2315.72 sec) Binary
3208    Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209    Date: 02/14/07 Time: 11:36:25 CPU Time: 0 0:38:47.32 ( 2327.32 sec) Binary
3211    Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212    Date: 02/14/07 Time: 11:36:38 CPU Time: 0 0:39: 0.31 ( 2340.31 sec) Binary
3214    Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215    Date: 02/14/07 Time: 11:36:50 CPU Time: 0 0:39:12.56 ( 2352.56 sec) Binary
3217    Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218    Date: 02/14/07 Time: 11:37:01 CPU Time: 0 0:39:23.70 ( 2363.70 sec) Binary
3220    Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221    Date: 02/14/07 Time: 11:37:09 CPU Time: 0 0:39:31.46 ( 2371.46 sec) Binary
3223    Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
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3224    Date: 02/14/07 Time: 11:37:20 CPU Time: 0 0:39:41.92 ( 2381.92 sec) Binary
3226    Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227    Date: 02/14/07 Time: 11:37:31 CPU Time: 0 0:39:52.83 ( 2392.83 sec) Binary
3229    Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230    Date: 02/14/07 Time: 11:37:36 CPU Time: 0 0:39:58.39 ( 2398.39 sec) Binary
3232    Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233    Date: 02/14/07 Time: 11:37:49 CPU Time: 0 0:40:11.65 ( 2411.65 sec) Binary
3235    Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236    Date: 02/14/07 Time: 11:37:58 CPU Time: 0 0:40:20.58 ( 2420.58 sec) Binary
3238    Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239    Date: 02/14/07 Time: 11:38:09 CPU Time: 0 0:40:30.84 ( 2430.84 sec) Binary
3241    Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242    Date: 02/14/07 Time: 11:38:21 CPU Time: 0 0:40:43.07 ( 2443.07 sec) Binary
3244    Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245    Date: 02/14/07 Time: 11:38:25 CPU Time: 0 0:40:47.53 ( 2447.53 sec) Binary
3247    Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248    Date: 02/14/07 Time: 11:38:34 CPU Time: 0 0:40:56.51 ( 2456.51 sec) Binary
3250    Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251    Date: 02/14/07 Time: 11:38:45 CPU Time: 0 0:41: 7.47 ( 2467.47 sec) Binary
3253    Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254    Date: 02/14/07 Time: 11:38:55 CPU Time: 0 0:41:17.44 ( 2477.44 sec) Binary
3256    Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257    Date: 02/14/07 Time: 11:39:06 CPU Time: 0 0:41:27.73 ( 2487.73 sec) Binary
3259    Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260    Date: 02/14/07 Time: 11:39:13 CPU Time: 0 0:41:34.77 ( 2494.77 sec) Binary
3262    Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263    Date: 02/14/07 Time: 11:39:22 CPU Time: 0 0:41:44.41 ( 2504.41 sec) Binary
3265    Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266    Date: 02/14/07 Time: 11:39:32 CPU Time: 0 0:41:54.12 ( 2514.12 sec) Binary
3268    Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269    Date: 02/14/07 Time: 11:39:39 CPU Time: 0 0:42: 0.81 ( 2520.81 sec) Binary
3271    Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272    Date: 02/14/07 Time: 11:39:47 CPU Time: 0 0:42: 9.26 ( 2529.26 sec) Binary
3274    Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275    Date: 02/14/07 Time: 11:39:58 CPU Time: 0 0:42:19.94 ( 2539.94 sec) Binary
3277    Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278    Date: 02/14/07 Time: 11:40:06 CPU Time: 0 0:42:27.62 ( 2547.62 sec) Binary
3280    Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
3281    Date: 02/14/07 Time: 11:40:16 CPU Time: 0 0:42:37.60 ( 2557.60 sec) Binary
3283    Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
3284    Date: 02/14/07 Time: 11:40:26 CPU Time: 0 0:42:48.40 ( 2568.40 sec) Binary
3286    Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
3287    Date: 02/14/07 Time: 11:40:37 CPU Time: 0 0:42:58.48 ( 2578.48 sec) Binary
3289    Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
3290    Date: 02/14/07 Time: 11:40:42 CPU Time: 0 0:43: 4.20 ( 2584.20 sec) Binary
3292    Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
3293    Date: 02/14/07 Time: 11:40:49 CPU Time: 0 0:43:11.09 ( 2591.09 sec) Binary
3295    Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
3296    Date: 02/14/07 Time: 11:40:57 CPU Time: 0 0:43:19.13 ( 2599.13 sec) Binary
3298    Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
3299    Date: 02/14/07 Time: 11:41:06 CPU Time: 0 0:43:27.48 ( 2607.48 sec) Binary
3302    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
2450    Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 ( 59.74 sec) ASCII
2452    Time Step No. = 266 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
2455    Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456    Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 ( 65.15 sec) Binary
2458    Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459    Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 ( 69.55 sec) Binary
2461    Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462    Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 ( 72.89 sec) Binary
2464    Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465    Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 ( 77.15 sec) Binary
2467    Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468    Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 ( 83.42 sec) Binary
2470    Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471    Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 ( 97.17 sec) Binary
2473    Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474    Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 ( 99.45 sec) Binary
2476    Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477    Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 ( 107.65 sec) Binary
2479    Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480    Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 ( 110.59 sec) Binary
2482    Time Step No. = 460 Elapsed Time = 7.220026E+03 days
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2483  Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 ( 119.64 sec) Binary
2485  Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486  Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 ( 122.92 sec) Binary
2488  Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489  Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 ( 130.47 sec) Binary
2491  Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492  Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 ( 139.54 sec) Binary
2494  Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2495  Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 ( 141.99 sec) Binary
2497  Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498  Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 ( 150.13 sec) Binary
2500  Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501  Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 ( 153.21 sec) Binary
2503  Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504  Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 ( 161.33 sec) Binary
2506  Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507  Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 ( 165.19 sec) Binary
2509  Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510  Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 ( 174.09 sec) Binary
2512  Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513  Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 ( 183.42 sec) Binary
2515  Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516  Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 ( 185.70 sec) Binary
2518  Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519  Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 ( 193.56 sec) Binary
2521  Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522  Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 ( 196.22 sec) Binary
2524  Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525  Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 ( 204.20 sec) Binary
2527  Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528  Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 ( 213.37 sec) Binary
2530  Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531  Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 ( 215.40 sec) Binary
2533  Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534  Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 ( 223.80 sec) Binary
2536  Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537  Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 ( 226.20 sec) Binary
2539  Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540  Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 ( 233.85 sec) Binary
2542  Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543  Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 ( 237.18 sec) Binary
2545  Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546  Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 ( 242.87 sec) Binary
2548  Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549  Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 ( 254.94 sec) Binary
2551  Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552  Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2554  Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555  Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 ( 264.20 sec) Binary
2557  Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558  Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 ( 276.67 sec) Binary
2560  Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561  Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 ( 280.02 sec) Binary
2563  Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564  Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 ( 293.40 sec) Binary
2566  Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567  Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 ( 295.43 sec) Binary
2569  Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570  Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 ( 299.39 sec) Binary
2572  Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573  Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 ( 310.13 sec) Binary
2575  Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576  Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 ( 319.31 sec) Binary
2578  Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579  Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 ( 321.22 sec) Binary
2581  Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582  Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 ( 324.98 sec) Binary
2584  Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585  Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 ( 334.23 sec) Binary
2587  Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588  Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 ( 342.19 sec) Binary
2590  Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591  Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 ( 346.52 sec) Binary
2593  Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594  Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 ( 359.27 sec) Binary
2596  Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
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2597   Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 ( 362.34 sec) Binary
2599   Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600   Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 ( 367.83 sec) Binary
2602   Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603   Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 ( 380.42 sec) Binary
2605   Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606   Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 ( 383.93 sec) Binary
2608   Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609   Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 ( 392.02 sec) Binary
2611   Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612   Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 ( 400.37 sec) Binary
2614   Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615   Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 ( 402.90 sec) Binary
2617   Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618   Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 ( 412.29 sec) Binary
2620   Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621   Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 ( 415.23 sec) Binary
2623   Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624   Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 ( 423.54 sec) Binary
2626   Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627   Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 ( 432.52 sec) Binary
2629   Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630   Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 ( 435.51 sec) Binary
2632   Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633   Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 ( 438.52 sec) Binary
2635   Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636   Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 ( 441.89 sec) Binary
2638   Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639   Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 ( 445.40 sec) Binary
2641   Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642   Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 ( 448.98 sec) Binary
2644   Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645   Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 ( 452.25 sec) Binary
2647   Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648   Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 ( 455.05 sec) Binary
2650   Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651   Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 ( 463.51 sec) Binary
2653   Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654   Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 ( 467.02 sec) Binary
2656   Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657   Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 ( 477.83 sec) Binary
2659   Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660   Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 ( 480.40 sec) Binary
2662   Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663   Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 ( 489.12 sec) Binary
2665   Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666   Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 ( 492.54 sec) Binary
2668   Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669   Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 ( 501.25 sec) Binary
2671   Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672   Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 ( 504.96 sec) Binary
2674   Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675   Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 ( 513.96 sec) Binary
2677   Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678   Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 ( 517.46 sec) Binary
2680   Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681   Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 8:46.92 ( 526.92 sec) Binary
2683   Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684   Date: 02/14/07 Time: 10:01:29 CPU Time: 0 0: 9: 2.11 ( 542.11 sec) Binary
2686   Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687   Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 9: 4.35 ( 544.35 sec) Binary
2689   Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690   Date: 02/14/07 Time: 10:01:36 CPU Time: 0 0: 9: 8.61 ( 548.61 sec) Binary
2692   Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693   Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 9:20.17 ( 560.17 sec) Binary
2695   Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696   Date: 02/14/07 Time: 10:01:51 CPU Time: 0 0: 9:23.59 ( 563.59 sec) Binary
2698   Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699   Date: 02/14/07 Time: 10:01:57 CPU Time: 0 0: 9:29.87 ( 569.87 sec) Binary
2701   Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702   Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 9:42.61 ( 582.61 sec) Binary
2704   Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705   Date: 02/14/07 Time: 10:02:13 CPU Time: 0 0: 9:46.10 ( 586.10 sec) Binary
2707   Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708   Date: 02/14/07 Time: 10:02:22 CPU Time: 0 0: 9:54.39 ( 594.39 sec) Binary
2710   Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
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2711    Date: 02/14/07 Time: 10:02:31 CPU Time: 0 0:10: 3.37 ( 603.37 sec) Binary
2713    Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714    Date: 02/14/07 Time: 10:02:33 CPU Time: 0 0:10: 5.81 ( 605.81 sec) Binary
2716    Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717    Date: 02/14/07 Time: 10:02:38 CPU Time: 0 0:10:10.98 ( 610.98 sec) Binary
2719    Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720    Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0:10:21.44 ( 621.44 sec) Binary
2722    Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2723    Date: 02/14/07 Time: 10:02:58 CPU Time: 0 0:10:30.92 ( 630.92 sec) Binary
2725    Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726    Date: 02/14/07 Time: 10:03:00 CPU Time: 0 0:10:33.09 ( 633.09 sec) Binary
2728    Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729    Date: 02/14/07 Time: 10:03:08 CPU Time: 0 0:10:40.75 ( 640.75 sec) Binary
2731    Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732    Date: 02/14/07 Time: 10:03:11 CPU Time: 0 0:10:43.90 ( 643.90 sec) Binary
2734    Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735    Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0:10:52.07 ( 652.07 sec) Binary
2737    Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2738    Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0:10:55.69 ( 655.69 sec) Binary
2740    Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741    Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0:11: 2.72 ( 662.72 sec) Binary
2743    Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744    Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0:11:16.72 ( 676.72 sec) Binary
2746    Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747    Date: 02/14/07 Time: 10:03:47 CPU Time: 0 0:11:19.53 ( 679.53 sec) Binary
2749    Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750    Date: 02/14/07 Time: 10:03:52 CPU Time: 0 0:11:24.32 ( 684.32 sec) Binary
2752    Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753    Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0:11:37.13 ( 697.13 sec) Binary
2755    Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756    Date: 02/14/07 Time: 10:04:09 CPU Time: 0 0:11:40.77 ( 700.77 sec) Binary
2758    Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759    Date: 02/14/07 Time: 10:04:17 CPU Time: 0 0:11:48.74 ( 708.74 sec) Binary
2761    Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762    Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0:11:52.88 ( 712.88 sec) Binary
2764    Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765    Date: 02/14/07 Time: 10:04:35 CPU Time: 0 0:12: 7.53 ( 727.53 sec) Binary
2767    Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768    Date: 02/14/07 Time: 10:04:38 CPU Time: 0 0:12:10.40 ( 730.40 sec) Binary
2770    Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771    Date: 02/14/07 Time: 10:04:46 CPU Time: 0 0:12:18.11 ( 738.11 sec) Binary
2773    Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774    Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0:12:21.91 ( 741.91 sec) Binary
2776    Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777    Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0:12:30.71 ( 750.71 sec) Binary
2779    Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780    Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0:12:39.15 ( 759.15 sec) Binary
2782    Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783    Date: 02/14/07 Time: 10:05:10 CPU Time: 0 0:12:42.10 ( 762.10 sec) Binary
2785    Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786    Date: 02/14/07 Time: 10:05:15 CPU Time: 0 0:12:46.90 ( 766.90 sec) Binary
2788    Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789    Date: 02/14/07 Time: 10:05:25 CPU Time: 0 0:12:56.52 ( 776.52 sec) Binary
2791    Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792    Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0:13: 8.96 ( 788.96 sec) Binary
2794    Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795    Date: 02/14/07 Time: 10:05:41 CPU Time: 0 0:13:12.55 ( 792.55 sec) Binary
2797    Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798    Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0:13:19.01 ( 799.01 sec) Binary
2800    Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801    Date: 02/14/07 Time: 10:05:59 CPU Time: 0 0:13:30.78 ( 810.78 sec) Binary
2803    Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804    Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0:13:37.89 ( 817.89 sec) Binary
2806    Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807    Date: 02/14/07 Time: 10:06:14 CPU Time: 0 0:13:45.32 ( 825.32 sec) Binary
2809    Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810    Date: 02/14/07 Time: 10:06:22 CPU Time: 0 0:13:53.65 ( 833.65 sec) Binary
2812    Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813    Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0:14: 4.08 ( 844.08 sec) Binary
2815    Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816    Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0:14:11.21 ( 851.21 sec) Binary
2818    Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819    Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0:14:19.76 ( 859.76 sec) Binary
2821    Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822    Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0:14:30.59 ( 870.59 sec) Binary
2824    Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
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2825    Date: 02/14/07 Time: 10:07:09 CPU Time: 0 0:14:40.74 ( 880.74 sec) Binary
2827    Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828    Date: 02/14/07 Time: 10:07:21 CPU Time: 0 0:14:52.32 ( 892.32 sec) Binary
2830    Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831    Date: 02/14/07 Time: 10:07:31 CPU Time: 0 0:15: 2.56 ( 902.56 sec) Binary
2833    Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834    Date: 02/14/07 Time: 10:07:41 CPU Time: 0 0:15:11.69 ( 911.69 sec) Binary
2836    Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837    Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 ( 921.53 sec) Binary
2839    Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840    Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 ( 931.06 sec) Binary
2842    Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843    Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 ( 940.31 sec) Binary
2845    Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846    Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 ( 951.78 sec) Binary
2848    Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849    Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 ( 962.69 sec) Binary
2851    Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852    Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 ( 971.94 sec) Binary
2854    Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855    Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 ( 980.61 sec) Binary
2857    Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858    Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 ( 988.50 sec) Binary
2860    Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861    Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 ( 996.64 sec) Binary
2863    Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864    Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 ( 1004.37 sec) Binary
2866    Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867    Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 ( 1011.55 sec) Binary
2869    Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870    Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 ( 1019.27 sec) Binary
2872    Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873    Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 ( 1026.44 sec) Binary
2875    Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876    Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 ( 1034.18 sec) Binary
2878    Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879    Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 ( 1041.35 sec) Binary
2881    Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882    Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 ( 1048.80 sec) Binary
2884    Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885    Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 ( 1055.29 sec) Binary
2887    Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888    Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 ( 1062.01 sec) Binary
2890    Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891    Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 ( 1067.89 sec) Binary
2893    Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894    Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 ( 1074.18 sec) Binary
2896    Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897    Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 ( 1079.95 sec) Binary
2899    Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900    Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 ( 1085.71 sec) Binary
2902    Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903    Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 ( 1091.99 sec) Binary
2905    Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906    Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 ( 1097.75 sec) Binary
2908    Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909    Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 ( 1104.04 sec) Binary
2911    Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912    Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 ( 1109.81 sec) Binary
2914    Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915    Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 ( 1116.11 sec) Binary
2917    Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918    Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 ( 1121.88 sec) Binary
2920    Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921    Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 ( 1127.65 sec) Binary
2923    Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924    Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 ( 1133.93 sec) Binary
2926    Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927    Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 ( 1139.70 sec) Binary
2929    Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930    Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 ( 1145.98 sec) Binary
2932    Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 ( 1151.76 sec) Binary
2935    Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936    Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 ( 1158.05 sec) Binary
2938    Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
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2939    Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 ( 1164.26 sec) Binary
2941    Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942    Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 ( 1170.48 sec) Binary
2944    Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945    Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 ( 1177.23 sec) Binary
2947    Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948    Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 ( 1183.43 sec) Binary
2950    Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951    Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 ( 1190.19 sec) Binary
2953    Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954    Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 ( 1196.38 sec) Binary
2956    Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957    Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 ( 1202.59 sec) Binary
2959    Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960    Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 ( 1209.36 sec) Binary
2962    Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963    Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 ( 1215.56 sec) Binary
2965    Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966    Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 ( 1222.31 sec) Binary
2968    Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969    Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 ( 1228.51 sec) Binary
2971    Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972    Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 ( 1235.27 sec) Binary
2974    Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975    Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 ( 1241.48 sec) Binary
2977    Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 ( 1247.36 sec) Binary
2980    Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981    Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 ( 1253.65 sec) Binary
2983    Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984    Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 ( 1259.43 sec) Binary
2986    Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987    Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 ( 1265.74 sec) Binary
2989    Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990    Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 ( 1271.53 sec) Binary
2992    Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993    Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 ( 1277.32 sec) Binary
2995    Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996    Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 ( 1283.61 sec) Binary
2998    Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999    Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 ( 1289.41 sec) Binary
3001    Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002    Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 ( 1295.98 sec) Binary
3004    Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005    Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 ( 1302.19 sec) Binary
3007    Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008    Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 ( 1308.91 sec) Binary
3010    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011    Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 ( 1315.11 sec) Binary
3013    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014    Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 ( 1321.47 sec) Binary
3016    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017    Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 ( 1328.23 sec) Binary
3019    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020    Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 ( 1334.39 sec) Binary
3022    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023    Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 ( 1340.62 sec) Binary
3025    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026    Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 ( 1347.46 sec) Binary
3028    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029    Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 ( 1353.82 sec) Binary
3031    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032    Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 ( 1360.33 sec) Binary
3034    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035    Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 ( 1367.50 sec) Binary
3037    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038    Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 ( 1374.75 sec) Binary
3040    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041    Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 ( 1384.12 sec) Binary
3043    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044    Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 ( 1392.17 sec) Binary
3046    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047    Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 ( 1406.30 sec) Binary
3049    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050    Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 ( 1412.98 sec) Binary
3052    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
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3053    Date: 02/14/07 Time: 10:16:10 CPU Time: 0 0:23:39.31 ( 1419.31 sec) Binary
3055    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056    Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0:23:45.65 ( 1425.65 sec) Binary
3058    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059    Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0:23:52.56 ( 1432.56 sec) Binary
3061    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062    Date: 02/14/07 Time: 10:16:29 CPU Time: 0 0:23:58.88 ( 1438.88 sec) Binary
3064    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065    Date: 02/14/07 Time: 10:16:36 CPU Time: 0 0:24: 5.23 ( 1445.23 sec) Binary
3067    Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068    Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0:24:12.13 ( 1452.13 sec) Binary
3070    Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071    Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0:24:21.23 ( 1461.23 sec) Binary
3073    Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074    Date: 02/14/07 Time: 10:16:54 CPU Time: 0 0:24:23.19 ( 1463.19 sec) Binary
3076    Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077    Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0:24:27.03 ( 1467.03 sec) Binary
3079    Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080    Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0:24:39.78 ( 1479.78 sec) Binary
3082    Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083    Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0:24:43.55 ( 1483.55 sec) Binary
3085    Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086    Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0:24:56.86 ( 1496.86 sec) Binary
3088    Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089    Date: 02/14/07 Time: 10:17:33 CPU Time: 0 0:25: 1.82 ( 1501.82 sec) Binary
3091    Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092    Date: 02/14/07 Time: 10:17:42 CPU Time: 0 0:25:11.13 ( 1511.13 sec) Binary
3094    Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095    Date: 02/14/07 Time: 10:17:52 CPU Time: 0 0:25:21.22 ( 1521.22 sec) Binary
3097    Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098    Date: 02/14/07 Time: 10:18:01 CPU Time: 0 0:25:29.93 ( 1529.93 sec) Binary
3100    Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101    Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0:25:35.01 ( 1535.01 sec) Binary
3103    Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104    Date: 02/14/07 Time: 10:18:15 CPU Time: 0 0:25:43.98 ( 1543.98 sec) Binary
3106    Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107    Date: 02/14/07 Time: 10:18:26 CPU Time: 0 0:25:54.92 ( 1554.92 sec) Binary
3109    Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110    Date: 02/14/07 Time: 10:18:35 CPU Time: 0 0:26: 4.08 ( 1564.08 sec) Binary
3112    Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113    Date: 02/14/07 Time: 10:18:44 CPU Time: 0 0:26:12.77 ( 1572.77 sec) Binary
3115    Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116    Date: 02/14/07 Time: 10:18:53 CPU Time: 0 0:26:22.15 ( 1582.15 sec) Binary
3118    Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119    Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0:26:30.77 ( 1590.77 sec) Binary
3121    Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0:26:40.02 ( 1600.02 sec) Binary
3124    Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125    Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0:26:47.82 ( 1607.82 sec) Binary
3127    Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128    Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0:26:55.61 ( 1615.61 sec) Binary
3130    Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131    Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0:27: 4.02 ( 1624.02 sec) Binary
3133    Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134    Date: 02/14/07 Time: 10:19:45 CPU Time: 0 0:27:13.81 ( 1633.81 sec) Binary
3136    Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137    Date: 02/14/07 Time: 10:19:52 CPU Time: 0 0:27:20.63 ( 1640.63 sec) Binary
3139    Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140    Date: 02/14/07 Time: 10:19:58 CPU Time: 0 0:27:26.68 ( 1646.68 sec) Binary
3142    Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143    Date: 02/14/07 Time: 10:20:06 CPU Time: 0 0:27:34.69 ( 1654.69 sec) Binary
3145    Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146    Date: 02/14/07 Time: 10:20:08 CPU Time: 0 0:27:37.49 ( 1657.49 sec) Binary
3148    Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149    Date: 02/14/07 Time: 10:20:12 CPU Time: 0 0:27:40.63 ( 1660.63 sec) Binary
3151    Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152    Date: 02/14/07 Time: 10:20:18 CPU Time: 0 0:27:47.05 ( 1667.05 sec) Binary
3154    Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155    Date: 02/14/07 Time: 10:20:25 CPU Time: 0 0:27:54.29 ( 1674.29 sec) Binary
3157    Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158    Date: 02/14/07 Time: 10:20:27 CPU Time: 0 0:27:55.94 ( 1675.94 sec) Binary
3160    Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161    Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0:27:59.13 ( 1679.13 sec) Binary
3163    Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164    Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0:28: 6.47 ( 1686.47 sec) Binary
3166    Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
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3167    Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 ( 1693.19 sec) Binary
3169    Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170    Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 ( 1700.55 sec) Binary
3172    Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173    Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 ( 1708.25 sec) Binary
3175    Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176    Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 ( 1715.17 sec) Binary
3178    Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179    Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 ( 1721.18 sec) Binary
3181    Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182    Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 ( 1727.85 sec) Binary
3184    Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185    Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 ( 1738.11 sec) Binary
3187    Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188    Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 ( 1741.74 sec) Binary
3190    Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191    Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 ( 1747.97 sec) Binary
3193    Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194    Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 ( 1757.13 sec) Binary
3196    Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197    Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 ( 1763.17 sec) Binary
3199    Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200    Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 ( 1769.47 sec) Binary
3202    Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203    Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 ( 1778.51 sec) Binary
3205    Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206    Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 ( 1787.88 sec) Binary
3208    Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209    Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 ( 1796.92 sec) Binary
3211    Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212    Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 ( 1806.98 sec) Binary
3214    Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215    Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 ( 1816.46 sec) Binary
3217    Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218    Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 ( 1825.13 sec) Binary
3220    Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221    Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 ( 1831.16 sec) Binary
3223    Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224    Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 ( 1839.28 sec) Binary
3226    Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227    Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 ( 1847.75 sec) Binary
3229    Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230    Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 ( 1852.06 sec) Binary
3232    Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233    Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 ( 1862.34 sec) Binary
3235    Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236    Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 ( 1869.28 sec) Binary
3238    Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239    Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 ( 1877.25 sec) Binary
3241    Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242    Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 ( 1886.76 sec) Binary
3244    Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245    Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 ( 1890.25 sec) Binary
3247    Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248    Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 ( 1897.26 sec) Binary
3250    Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
3251    Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 ( 1905.78 sec) Binary
3253    Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
3254    Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 ( 1913.40 sec) Binary
3256    Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
3257    Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 ( 1921.39 sec) Binary
3259    Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
3260    Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 ( 1926.85 sec) Binary
3262    Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
3263    Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 ( 1934.32 sec) Binary
3265    Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
3266    Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 ( 1941.87 sec) Binary
3268    Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
3269    Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 ( 1947.06 sec) Binary
3271    Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
3272    Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 ( 1953.63 sec) Binary
3274    Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
3275    Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 ( 1961.92 sec) Binary
3277    Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
3278    Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 ( 1967.88 sec) Binary
3280    Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
```

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 3281     Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 ( 1975.64 sec) Binary
 3283     Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
 3284     Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 ( 1983.99 sec) Binary
 3286     Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
 3287     Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 ( 1991.82 sec) Binary
 3289     Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
 3290     Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 ( 1996.26 sec) Binary
 3292     Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
 3293     Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 ( 2001.65 sec) Binary
 3295     Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
 3296     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 ( 2007.88 sec) Binary
 3298     Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
 3299     Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 ( 2014.32 sec) Binary
 3302     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
 3318     CPU Time (this time step) = 0.37 sec = 0.00010 hr
 3319     CPU Time (total for run) = 2608.58 sec = 0.72461 hr
 3320     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3318     CPU Time (this time step) = 0.30 sec = 0.00008 hr
 3319     CPU Time (total for run) = 2015.18 sec = 0.55977 hr
 3320     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1
 3996     Date: 02/14/07 Time: 11:41:07 CPU Time: 0 0:43:28.61 ( 2608.61 sec) ASCII
 3998     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3999     Date: 02/14/07 Time: 11:41:07 CPU Time: 0 0:43:28.61 ( 2608.61 sec) Binary
 4004     ***************************************************************************
 4005     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4006     * Completed: 02/14/07 at 11:41:07 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 4007     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3996     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) ASCII
 3998     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3999     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) Binary
 4004     ***************************************************************************
 4005     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4006     * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4007     ***************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 584

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES40_TEST7_V009.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
```

BF2_QB0600_ES40_TEST7_V010_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
    3     ** Begun on: 02/14/07 at 10:58:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
    3     ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
   62     ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 31.35 sec = 0.00871 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.38 sec = 0.00649 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
 2450     Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:31.38 ( 31.38 sec) ASCII
 2452     Time Step No. = 138 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:31.39 ( 31.39 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.927161E-02 days
 2456     Date: 02/14/07 Time: 10:58:41 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.062646E+00 days
 2459     Date: 02/14/07 Time: 10:58:46 CPU Time: 0 0: 0:37.00 ( 37.00 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.478092E+02 days
 2462     Date: 02/14/07 Time: 10:58:51 CPU Time: 0 0: 0:42.34 ( 42.34 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.616479E+03 days
 2465     Date: 02/14/07 Time: 10:58:58 CPU Time: 0 0: 0:49.73 ( 49.73 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.564322E+04 days
 2468     Date: 02/14/07 Time: 10:59:10 CPU Time: 0 0: 1: 1.08 ( 61.08 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 1.570228E+04 days
 2471     Date: 02/14/07 Time: 10:59:18 CPU Time: 0 0: 1: 9.41 ( 69.41 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 1.636574E+04 days
 2474     Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 1:15.39 ( 75.39 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 2.627969E+04 days
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2477    Date: 02/14/07 Time: 10:59:31 CPU Time: 0 0: 1:22.17 ( 82.17 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480    Date: 02/14/07 Time: 10:59:43 CPU Time: 0 0: 1:33.87 ( 93.87 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483    Date: 02/14/07 Time: 10:59:52 CPU Time: 0 0: 1:42.72 ( 102.72 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486    Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 1:47.12 ( 107.12 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489    Date: 02/14/07 Time: 11:00:06 CPU Time: 0 0: 1:57.64 ( 117.64 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492    Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 2: 2.19 ( 122.19 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495    Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 2: 7.02 ( 127.02 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498    Date: 02/14/07 Time: 11:00:19 CPU Time: 0 0: 2:10.28 ( 130.28 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501    Date: 02/14/07 Time: 11:00:25 CPU Time: 0 0: 2:16.50 ( 136.50 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504    Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0: 2:23.04 ( 143.04 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507    Date: 02/14/07 Time: 11:00:40 CPU Time: 0 0: 2:30.91 ( 150.91 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510    Date: 02/14/07 Time: 11:00:45 CPU Time: 0 0: 2:36.42 ( 156.42 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513    Date: 02/14/07 Time: 11:00:54 CPU Time: 0 0: 2:45.06 ( 165.06 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516    Date: 02/14/07 Time: 11:01:04 CPU Time: 0 0: 2:55.50 ( 175.50 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519    Date: 02/14/07 Time: 11:01:14 CPU Time: 0 0: 3: 5.53 ( 185.53 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522    Date: 02/14/07 Time: 11:01:24 CPU Time: 0 0: 3:15.20 ( 195.20 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525    Date: 02/14/07 Time: 11:01:34 CPU Time: 0 0: 3:24.78 ( 204.78 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528    Date: 02/14/07 Time: 11:01:42 CPU Time: 0 0: 3:33.27 ( 213.27 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531    Date: 02/14/07 Time: 11:01:55 CPU Time: 0 0: 3:45.62 ( 225.62 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534    Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0: 3:56.39 ( 236.39 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537    Date: 02/14/07 Time: 11:02:18 CPU Time: 0 0: 4: 8.89 ( 248.89 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 2.337832E+05 days
2540    Date: 02/14/07 Time: 11:02:29 CPU Time: 0 0: 4:20.19 ( 260.19 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 2.687785E+05 days
2543    Date: 02/14/07 Time: 11:02:38 CPU Time: 0 0: 4:29.10 ( 269.10 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.009523E+05 days
2546    Date: 02/14/07 Time: 11:02:50 CPU Time: 0 0: 4:40.88 ( 280.88 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.218089E+05 days
2549    Date: 02/14/07 Time: 11:03:02 CPU Time: 0 0: 4:52.79 ( 292.79 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.391516E+05 days
2552    Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 5: 2.78 ( 302.78 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.652438E+05 days
2555    Date: 02/14/07 Time: 11:03:20 CPU Time: 0 0: 5:10.75 ( 310.75 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.652885E+05 days
2558    Date: 02/14/07 Time: 11:03:24 CPU Time: 0 0: 5:14.34 ( 314.34 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 3.665818E+05 days
2561    Date: 02/14/07 Time: 11:03:27 CPU Time: 0 0: 5:18.10 ( 318.10 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 3.665902E+05 days
2564    Date: 02/14/07 Time: 11:03:29 CPU Time: 0 0: 5:19.95 ( 319.95 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 3.673164E+05 days
2567    Date: 02/14/07 Time: 11:03:33 CPU Time: 0 0: 5:23.46 ( 323.46 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 3.787894E+05 days
2570    Date: 02/14/07 Time: 11:03:41 CPU Time: 0 0: 5:31.15 ( 331.15 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 3.981376E+05 days
2573    Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 5:41.88 ( 341.88 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 4.776050E+05 days
2576    Date: 02/14/07 Time: 11:04:01 CPU Time: 0 0: 5:51.89 ( 351.89 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 6.163774E+05 days
2579    Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 6: 1.76 ( 361.76 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 8.538495E+05 days
2582    Date: 02/14/07 Time: 11:04:23 CPU Time: 0 0: 6:13.36 ( 373.36 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
2585    Date: 02/14/07 Time: 11:04:34 CPU Time: 0 0: 6:24.11 ( 384.11 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
2588    Date: 02/14/07 Time: 11:04:42 CPU Time: 0 0: 6:32.34 ( 392.34 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
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2591     Date: 02/14/07 Time: 11:04:52 CPU Time: 0 0: 6:42.42 ( 402.42 sec) Binary
2593     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
2594     Date: 02/14/07 Time: 11:05:02 CPU Time: 0 0: 6:52.58 ( 412.58 sec) Binary
2596     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
2597     Date: 02/14/07 Time: 11:05:09 CPU Time: 0 0: 6:58.98 ( 418.98 sec) Binary
2599     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
2600     Date: 02/14/07 Time: 11:05:17 CPU Time: 0 0: 7: 7.15 ( 427.15 sec) Binary
2602     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
2603     Date: 02/14/07 Time: 11:05:22 CPU Time: 0 0: 7:12.78 ( 432.78 sec) Binary
2605     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
2606     Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 7:18.24 ( 438.24 sec) Binary
2608     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
2609     Date: 02/14/07 Time: 11:05:33 CPU Time: 0 0: 7:23.58 ( 443.58 sec) Binary
2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
2450     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 ( 23.39 sec) ASCII
2452     Time Step No. = 138 Elapsed Time = 0.000000E+00 days
2453     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 ( 23.40 sec) Binary
2455     Time Step No. = 140 Elapsed Time = 1.927161E-02 days
2456     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 ( 23.87 sec) Binary
2458     Time Step No. = 160 Elapsed Time = 3.062646E+00 days
2459     Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 ( 27.65 sec) Binary
2461     Time Step No. = 180 Elapsed Time = 1.478092E+02 days
2462     Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 ( 31.69 sec) Binary
2464     Time Step No. = 200 Elapsed Time = 2.616479E+03 days
2465     Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 ( 37.25 sec) Binary
2467     Time Step No. = 220 Elapsed Time = 1.564322E+04 days
2468     Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 ( 45.86 sec) Binary
2470     Time Step No. = 240 Elapsed Time = 1.570228E+04 days
2471     Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 ( 52.16 sec) Binary
2473     Time Step No. = 260 Elapsed Time = 1.636574E+04 days
2474     Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 ( 56.68 sec) Binary
2476     Time Step No. = 280 Elapsed Time = 2.627969E+04 days
2477     Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 ( 61.80 sec) Binary
2479     Time Step No. = 300 Elapsed Time = 3.052605E+04 days
2480     Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 ( 70.47 sec) Binary
2482     Time Step No. = 320 Elapsed Time = 3.082160E+04 days
2483     Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 ( 76.74 sec) Binary
2485     Time Step No. = 340 Elapsed Time = 3.098990E+04 days
2486     Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 ( 79.98 sec) Binary
2488     Time Step No. = 360 Elapsed Time = 3.652480E+04 days
2489     Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 ( 88.15 sec) Binary
2491     Time Step No. = 380 Elapsed Time = 3.654799E+04 days
2492     Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 ( 91.69 sec) Binary
2494     Time Step No. = 400 Elapsed Time = 3.665586E+04 days
2495     Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 ( 95.44 sec) Binary
2497     Time Step No. = 420 Elapsed Time = 3.668780E+04 days
2498     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 ( 97.97 sec) Binary
2500     Time Step No. = 440 Elapsed Time = 3.849288E+04 days
2501     Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 ( 102.81 sec) Binary
2503     Time Step No. = 460 Elapsed Time = 4.259472E+04 days
2504     Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
2506     Time Step No. = 480 Elapsed Time = 4.286084E+04 days
2507     Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 ( 114.02 sec) Binary
2509     Time Step No. = 500 Elapsed Time = 4.373619E+04 days
2510     Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 ( 118.30 sec) Binary
2512     Time Step No. = 520 Elapsed Time = 6.235496E+04 days
2513     Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 ( 124.96 sec) Binary
2515     Time Step No. = 540 Elapsed Time = 7.292165E+04 days
2516     Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 ( 132.94 sec) Binary
2518     Time Step No. = 560 Elapsed Time = 7.898391E+04 days
2519     Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 ( 140.64 sec) Binary
2521     Time Step No. = 580 Elapsed Time = 9.913502E+04 days
2522     Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 ( 148.07 sec) Binary
2524     Time Step No. = 600 Elapsed Time = 1.286357E+05 days
2525     Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 ( 155.50 sec) Binary
2527     Time Step No. = 620 Elapsed Time = 1.645239E+05 days
2528     Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 ( 161.94 sec) Binary
2530     Time Step No. = 640 Elapsed Time = 1.856670E+05 days
2531     Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 ( 171.42 sec) Binary
2533     Time Step No. = 660 Elapsed Time = 2.030085E+05 days
2534     Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 ( 179.53 sec) Binary
2536     Time Step No. = 680 Elapsed Time = 2.179414E+05 days
2537     Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 ( 189.09 sec) Binary
2539     Time Step No. = 700 Elapsed Time = 2.337832E+05 days
```

```
 2540     Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 ( 197.84 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 2.687785E+05 days
 2543     Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 ( 204.76 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.009523E+05 days
 2546     Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 ( 213.78 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.218089E+05 days
 2549     Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 ( 222.74 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.391516E+05 days
 2552     Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 ( 229.95 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.652438E+05 days
 2555     Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 ( 235.62 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 3.652885E+05 days
 2558     Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 ( 238.15 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 3.665818E+05 days
 2561     Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 ( 240.84 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 3.665902E+05 days
 2564     Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 ( 242.17 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 3.673164E+05 days
 2567     Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 ( 244.70 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 3.787894E+05 days
 2570     Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 ( 250.23 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 3.981376E+05 days
 2573     Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 ( 257.91 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 4.776050E+05 days
 2576     Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 ( 265.08 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 6.163774E+05 days
 2579     Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 ( 272.12 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.538495E+05 days
 2582     Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 ( 280.41 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
 2585     Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 ( 288.64 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
 2588     Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 ( 295.14 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
 2591     Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 ( 303.12 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
 2594     Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 ( 311.14 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
 2597     Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 ( 316.21 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
 2600     Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 ( 322.67 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
 2603     Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 ( 327.13 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
 2606     Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 ( 331.46 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
 2609     Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 ( 335.70 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
 2628     CPU Time (this time step) = 0.10 sec = 0.00003 hr
 2629     CPU Time (total for run) = 444.75 sec = 0.12354 hr
 2630    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2628     CPU Time (this time step) = 0.07 sec = 0.00002 hr
 2629     CPU Time (total for run) = 336.61 sec = 0.09350 hr
 2630    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1
 3306     Date: 02/14/07 Time: 11:05:34 CPU Time: 0 0: 7:24.78 ( 444.78 sec) ASCII
 3308     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 11:05:34 CPU Time: 0 0: 7:24.79 ( 444.79 sec) Binary
 3314     ******************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 11:05:34 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3317     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 3306     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
 3308     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
 3314     ******************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
```

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 3316    * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317    ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 124

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES40_TEST7_V010.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
```

BF2_QB0600_ES40_TEST7_V011_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
    3    ** Begun on: 02/14/07 at 11:05:41 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
    3    ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
   62    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
   62    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   66    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   72    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   71    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   72    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.SUM;1
   77    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   76    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.SUM;1
   77    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.BIN;1
   82    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   81    PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.BIN;1
   82    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
   86    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.ROT;1
   87    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
```

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  86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
  87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
 1772    CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773    CPU Time (total for run) = 33.38 sec = 0.00927 hr
 1774    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1772    CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773    CPU Time (total for run) = 25.63 sec = 0.00712 hr
 1774    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
 2450    Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0:33.40 ( 33.40 sec) ASCII
 2452    Time Step No. = 142 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0:33.41 ( 33.41 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.064671E-03 days
 2456    Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:38.07 ( 38.07 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 9.402002E-02 days
 2459    Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:42.38 ( 42.38 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 5.514852E+00 days
 2462    Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:46.70 ( 46.70 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 2.178362E+02 days
 2465    Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:52.06 ( 52.06 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 2.221380E+03 days
 2468    Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 1: 0.18 ( 60.18 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 5.532745E+03 days
 2471    Date: 02/14/07 Time: 11:06:52 CPU Time: 0 0: 1:10.52 ( 70.52 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 5.850050E+03 days
 2474    Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 1:17.86 ( 77.86 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 7.163773E+03 days
 2477    Date: 02/14/07 Time: 11:07:09 CPU Time: 0 0: 1:27.57 ( 87.57 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 7.646916E+03 days
 2480    Date: 02/14/07 Time: 11:07:17 CPU Time: 0 0: 1:35.86 ( 95.86 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 8.451464E+03 days
 2483    Date: 02/14/07 Time: 11:07:24 CPU Time: 0 0: 1:42.55 ( 102.55 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 8.495154E+03 days
 2486    Date: 02/14/07 Time: 11:07:32 CPU Time: 0 0: 1:50.03 ( 110.03 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 8.550791E+03 days
 2489    Date: 02/14/07 Time: 11:07:38 CPU Time: 0 0: 1:56.64 ( 116.64 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 8.902588E+03 days
 2492    Date: 02/14/07 Time: 11:07:46 CPU Time: 0 0: 2: 4.40 ( 124.40 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 1.392947E+04 days
 2495    Date: 02/14/07 Time: 11:07:54 CPU Time: 0 0: 2:12.67 ( 132.67 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 1.478125E+04 days
 2498    Date: 02/14/07 Time: 11:08:02 CPU Time: 0 0: 2:20.25 ( 140.25 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 1.657464E+04 days
 2501    Date: 02/14/07 Time: 11:08:10 CPU Time: 0 0: 2:28.45 ( 148.45 sec) Binary
 2503    Time Step No. = 480 Elapsed Time = 1.869145E+04 days
 2504    Date: 02/14/07 Time: 11:08:20 CPU Time: 0 0: 2:38.42 ( 158.42 sec) Binary
 2506    Time Step No. = 500 Elapsed Time = 1.980385E+04 days
 2507    Date: 02/14/07 Time: 11:08:27 CPU Time: 0 0: 2:45.06 ( 165.06 sec) Binary
 2509    Time Step No. = 520 Elapsed Time = 2.165433E+04 days
 2510    Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 2:54.04 ( 174.04 sec) Binary
 2512    Time Step No. = 540 Elapsed Time = 2.189594E+04 days
 2513    Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 3: 2.43 ( 182.43 sec) Binary
 2515    Time Step No. = 560 Elapsed Time = 2.219046E+04 days
 2516    Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 3:11.60 ( 191.60 sec) Binary
 2518    Time Step No. = 580 Elapsed Time = 2.441063E+04 days
 2519    Date: 02/14/07 Time: 11:09:00 CPU Time: 0 0: 3:18.39 ( 198.39 sec) Binary
 2521    Time Step No. = 600 Elapsed Time = 2.696736E+04 days
 2522    Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 3:27.82 ( 207.82 sec) Binary
 2524    Time Step No. = 620 Elapsed Time = 3.055720E+04 days
 2525    Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0: 3:37.16 ( 217.16 sec) Binary
 2527    Time Step No. = 640 Elapsed Time = 3.382226E+04 days
 2528    Date: 02/14/07 Time: 11:09:26 CPU Time: 0 0: 3:44.62 ( 224.62 sec) Binary
 2530    Time Step No. = 660 Elapsed Time = 3.652433E+04 days
 2531    Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 3:55.41 ( 235.41 sec) Binary
 2533    Time Step No. = 680 Elapsed Time = 3.652532E+04 days
 2534    Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 3:59.19 ( 239.19 sec) Binary
 2536    Time Step No. = 700 Elapsed Time = 3.656608E+04 days
 2537    Date: 02/14/07 Time: 11:09:46 CPU Time: 0 0: 4: 4.05 ( 244.05 sec) Binary
 2539    Time Step No. = 720 Elapsed Time = 3.665527E+04 days
```

```
2540    Date: 02/14/07 Time: 11:09:49 CPU Time: 0 0: 4: 7.48 ( 247.48 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543    Date: 02/14/07 Time: 11:09:53 CPU Time: 0 0: 4:10.73 ( 250.73 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546    Date: 02/14/07 Time: 11:09:59 CPU Time: 0 0: 4:17.15 ( 257.15 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549    Date: 02/14/07 Time: 11:10:12 CPU Time: 0 0: 4:30.29 ( 270.29 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552    Date: 02/14/07 Time: 11:10:20 CPU Time: 0 0: 4:38.16 ( 278.16 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555    Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 4:44.97 ( 284.97 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558    Date: 02/14/07 Time: 11:10:34 CPU Time: 0 0: 4:52.12 ( 292.12 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561    Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 5: 0.78 ( 300.78 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564    Date: 02/14/07 Time: 11:10:49 CPU Time: 0 0: 5: 7.14 ( 307.14 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567    Date: 02/14/07 Time: 11:10:57 CPU Time: 0 0: 5:15.41 ( 315.41 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570    Date: 02/14/07 Time: 11:11:04 CPU Time: 0 0: 5:22.26 ( 322.26 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573    Date: 02/14/07 Time: 11:11:15 CPU Time: 0 0: 5:32.66 ( 332.66 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576    Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0: 5:41.85 ( 341.85 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579    Date: 02/14/07 Time: 11:11:33 CPU Time: 0 0: 5:50.42 ( 350.42 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582    Date: 02/14/07 Time: 11:11:43 CPU Time: 0 0: 6: 0.54 ( 360.54 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585    Date: 02/14/07 Time: 11:11:55 CPU Time: 0 0: 6:12.58 ( 372.58 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588    Date: 02/14/07 Time: 11:12:04 CPU Time: 0 0: 6:21.65 ( 381.65 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591    Date: 02/14/07 Time: 11:12:10 CPU Time: 0 0: 6:27.99 ( 387.99 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594    Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 6:37.68 ( 397.68 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597    Date: 02/14/07 Time: 11:12:29 CPU Time: 0 0: 6:46.54 ( 406.54 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600    Date: 02/14/07 Time: 11:12:40 CPU Time: 0 0: 6:57.77 ( 417.77 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603    Date: 02/14/07 Time: 11:12:45 CPU Time: 0 0: 7: 2.90 ( 422.90 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606    Date: 02/14/07 Time: 11:12:52 CPU Time: 0 0: 7: 9.35 ( 429.35 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609    Date: 02/14/07 Time: 11:12:54 CPU Time: 0 0: 7:11.38 ( 431.38 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612    Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0: 7:16.22 ( 436.22 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615    Date: 02/14/07 Time: 11:13:07 CPU Time: 0 0: 7:24.49 ( 444.49 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618    Date: 02/14/07 Time: 11:13:18 CPU Time: 0 0: 7:35.33 ( 455.33 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621    Date: 02/14/07 Time: 11:13:29 CPU Time: 0 0: 7:46.53 ( 466.53 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624    Date: 02/14/07 Time: 11:13:38 CPU Time: 0 0: 7:55.56 ( 475.56 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627    Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0: 8: 5.53 ( 485.53 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630    Date: 02/14/07 Time: 11:14:02 CPU Time: 0 0: 8:19.71 ( 499.71 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633    Date: 02/14/07 Time: 11:14:13 CPU Time: 0 0: 8:30.23 ( 510.23 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636    Date: 02/14/07 Time: 11:14:24 CPU Time: 0 0: 8:40.93 ( 520.93 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639    Date: 02/14/07 Time: 11:14:31 CPU Time: 0 0: 8:48.08 ( 528.08 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642    Date: 02/14/07 Time: 11:14:42 CPU Time: 0 0: 8:58.95 ( 538.95 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645    Date: 02/14/07 Time: 11:14:53 CPU Time: 0 0: 9: 9.85 ( 549.85 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648    Date: 02/14/07 Time: 11:15:04 CPU Time: 0 0: 9:20.37 ( 560.37 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651    Date: 02/14/07 Time: 11:15:15 CPU Time: 0 0: 9:31.49 ( 571.49 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
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 2654     Date: 02/14/07 Time: 11:15:26 CPU Time: 0 0: 9:42.53 ( 582.53 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
 2657     Date: 02/14/07 Time: 11:15:38 CPU Time: 0 0: 9:54.63 ( 594.63 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
 2660     Date: 02/14/07 Time: 11:15:46 CPU Time: 0 0:10: 3.12 ( 603.12 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
 2663     Date: 02/14/07 Time: 11:15:59 CPU Time: 0 0:10:15.92 ( 615.92 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
 2666     Date: 02/14/07 Time: 11:16:08 CPU Time: 0 0:10:24.30 ( 624.30 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
 2669     Date: 02/14/07 Time: 11:16:18 CPU Time: 0 0:10:34.53 ( 634.53 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
 2672     Date: 02/14/07 Time: 11:16:30 CPU Time: 0 0:10:46.39 ( 646.39 sec) Binary
 2674     Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
 2675     Date: 02/14/07 Time: 11:16:39 CPU Time: 0 0:10:56.05 ( 656.05 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
 2678     Date: 02/14/07 Time: 11:16:49 CPU Time: 0 0:11: 5.72 ( 665.72 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
 2681     Date: 02/14/07 Time: 11:17:02 CPU Time: 0 0:11:18.78 ( 678.78 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
 2684     Date: 02/14/07 Time: 11:17:13 CPU Time: 0 0:11:29.72 ( 689.72 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
 2687     Date: 02/14/07 Time: 11:17:21 CPU Time: 0 0:11:37.94 ( 697.94 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
 2690     Date: 02/14/07 Time: 11:17:30 CPU Time: 0 0:11:46.90 ( 706.90 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
 2693     Date: 02/14/07 Time: 11:17:37 CPU Time: 0 0:11:54.01 ( 714.01 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
 2696     Date: 02/14/07 Time: 11:17:47 CPU Time: 0 0:12: 3.57 ( 723.57 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
 2699     Date: 02/14/07 Time: 11:17:53 CPU Time: 0 0:12: 9.86 ( 729.86 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
 2702     Date: 02/14/07 Time: 11:18:04 CPU Time: 0 0:12:19.94 ( 739.94 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
 2705     Date: 02/14/07 Time: 11:18:14 CPU Time: 0 0:12:30.83 ( 750.83 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
 2708     Date: 02/14/07 Time: 11:18:21 CPU Time: 0 0:12:37.63 ( 757.63 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
 2711     Date: 02/14/07 Time: 11:18:27 CPU Time: 0 0:12:43.15 ( 763.15 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
 2714     Date: 02/14/07 Time: 11:18:32 CPU Time: 0 0:12:48.52 ( 768.52 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
 2717     Date: 02/14/07 Time: 11:18:38 CPU Time: 0 0:12:53.90 ( 773.90 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2450     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.64 ( 25.64 sec) ASCII
 2452     Time Step No. = 142 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.064671E-03 days
 2456     Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 ( 29.24 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.402002E-02 days
 2459     Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 ( 32.57 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.514852E+00 days
 2462     Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 ( 35.90 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 2.178362E+02 days
 2465     Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 ( 40.05 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 2.221380E+03 days
 2468     Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 ( 46.31 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 5.532745E+03 days
 2471     Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 ( 54.27 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 5.850050E+03 days
 2474     Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 ( 59.92 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 7.163773E+03 days
 2477     Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 ( 67.39 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 7.646916E+03 days
 2480     Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 8.451464E+03 days
 2483     Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 ( 78.35 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 8.495154E+03 days
 2486     Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 ( 83.72 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 8.550791E+03 days
 2489     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 ( 88.46 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 8.902588E+03 days
 2492     Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 ( 94.02 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 1.392947E+04 days
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2495    Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 ( 99.96 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498    Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 ( 105.40 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501    Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 ( 111.29 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504    Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 ( 118.40 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507    Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 ( 123.52 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510    Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 ( 130.59 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513    Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 ( 137.18 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516    Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519    Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 ( 148.71 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522    Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 ( 155.49 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525    Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 ( 162.17 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528    Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 ( 167.54 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531    Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 ( 175.35 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534    Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 ( 178.07 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537    Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 ( 181.55 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540    Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 ( 184.02 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543    Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 ( 186.38 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546    Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 ( 190.97 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549    Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 ( 200.67 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552    Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 ( 206.52 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555    Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 ( 211.59 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558    Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 ( 216.92 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561    Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 ( 223.38 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564    Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567    Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 ( 234.29 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570    Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 ( 239.43 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573    Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 ( 247.20 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576    Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 ( 254.05 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579    Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 ( 260.44 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582    Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585    Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 ( 276.92 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588    Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 ( 283.71 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591    Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 ( 288.46 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594    Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 ( 295.72 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 ( 302.33 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 ( 310.69 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603    Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 ( 314.53 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606    Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 ( 319.36 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
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2609    Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 ( 320.89 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612    Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 ( 324.49 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615    Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 ( 330.69 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618    Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 ( 338.82 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621    Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 ( 347.21 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624    Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 ( 353.95 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627    Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 ( 361.41 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630    Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 ( 371.96 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633    Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 ( 379.81 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636    Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 ( 387.79 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639    Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 ( 393.15 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642    Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 ( 401.25 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645    Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 ( 409.28 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648    Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 ( 417.14 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651    Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 ( 425.45 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654    Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 ( 433.70 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657    Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 ( 442.72 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660    Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 ( 449.05 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663    Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 ( 458.61 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666    Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 ( 464.88 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669    Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 ( 472.53 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672    Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 ( 481.38 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675    Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 ( 488.59 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678    Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 ( 495.77 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 ( 505.54 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684    Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 ( 513.74 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687    Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 ( 519.90 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
2690    Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 ( 526.64 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
2693    Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 ( 532.00 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
2696    Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 ( 539.23 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
2699    Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 ( 544.11 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
2702    Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 ( 551.98 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
2705    Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 ( 560.52 sec) Binary
2707    Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
2708    Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 ( 565.86 sec) Binary
2710    Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
2711    Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 ( 570.25 sec) Binary
2713    Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
2714    Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 ( 574.48 sec) Binary
2716    Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
2717    Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 ( 578.73 sec) Binary
2720    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
 2736     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2737     CPU Time (total for run) = 774.88 sec = 0.21524 hr
 2738    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2736     CPU Time (this time step) = 0.15 sec = 0.00004 hr
 2737     CPU Time (total for run) = 579.52 sec = 0.16098 hr
 2738    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1
 3414     Date: 02/14/07 Time: 11:18:39 CPU Time: 0 0:12:54.91 ( 774.91 sec) ASCII
 3416     Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 11:18:39 CPU Time: 0 0:12:54.91 ( 774.91 sec) Binary
 3422     ********************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 11:18:39 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3425     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 3414     Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
 3416     Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
 3422     ********************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 196

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES40_TEST7_V011.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
```

BF2_QB0600_ES40_TEST7_V012_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
    3     ** Begun on: 02/14/07 at 11:06:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
    3     ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```

```
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.ROT;1
   87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
   87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 30.60 sec = 0.00850 hr
 1774     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.20 sec = 0.00644 hr
 1774     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
 2450     Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.62 ( 30.62 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.63 ( 30.63 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2456     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:33.14 ( 33.14 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 1.502175E+01 days
 2459     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.22 ( 38.22 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 7.625276E+02 days
 2462     Date: 02/14/07 Time: 11:06:54 CPU Time: 0 0: 0:44.25 ( 44.25 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 6.318104E+03 days
 2465     Date: 02/14/07 Time: 11:07:02 CPU Time: 0 0: 0:52.77 ( 52.77 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653252E+04 days
 2468     Date: 02/14/07 Time: 11:07:14 CPU Time: 0 0: 1: 4.29 ( 64.29 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665724E+04 days
 2471     Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0: 1: 9.04 ( 69.04 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667033E+04 days
 2474     Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 1:11.69 ( 71.69 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.708680E+04 days
 2477     Date: 02/14/07 Time: 11:07:27 CPU Time: 0 0: 1:17.32 ( 77.32 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 5.092008E+04 days
 2480     Date: 02/14/07 Time: 11:07:34 CPU Time: 0 0: 1:24.35 ( 84.35 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 2.039729E+05 days
 2483     Date: 02/14/07 Time: 11:07:45 CPU Time: 0 0: 1:35.15 ( 95.15 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 2.274452E+05 days
 2486     Date: 02/14/07 Time: 11:07:57 CPU Time: 0 0: 1:47.44 ( 107.44 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.652467E+05 days
 2489     Date: 02/14/07 Time: 11:08:07 CPU Time: 0 0: 1:57.63 ( 117.63 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652814E+05 days
 2492     Date: 02/14/07 Time: 11:08:15 CPU Time: 0 0: 2: 5.82 ( 125.82 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.655778E+05 days
 2495     Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 2:13.96 ( 133.96 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.666037E+05 days
 2498     Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 2:23.53 ( 143.53 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.666104E+05 days
```

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2501 Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 2:26.10 ( 146.10 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0: 2:31.35 ( 151.35 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 11:08:50 CPU Time: 0 0: 2:40.66 ( 160.66 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 11:09:03 CPU Time: 0 0: 2:52.99 ( 172.99 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 11:09:12 CPU Time: 0 0: 3: 2.76 ( 182.76 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 11:09:22 CPU Time: 0 0: 3:12.19 ( 192.19 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 11:09:25 CPU Time: 0 0: 3:15.55 ( 195.55 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 11:09:32 CPU Time: 0 0: 3:22.42 ( 202.42 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 11:09:42 CPU Time: 0 0: 3:31.88 ( 211.88 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 11:09:47 CPU Time: 0 0: 3:37.26 ( 217.26 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 11:09:55 CPU Time: 0 0: 3:44.74 ( 224.74 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 11:10:01 CPU Time: 0 0: 3:51.07 ( 231.07 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 11:10:13 CPU Time: 0 0: 4: 2.77 ( 242.77 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 11:10:19 CPU Time: 0 0: 4: 9.28 ( 249.28 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 11:10:30 CPU Time: 0 0: 4:19.83 ( 259.83 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 11:10:35 CPU Time: 0 0: 4:25.27 ( 265.27 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 11:10:40 CPU Time: 0 0: 4:30.55 ( 270.55 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 4:37.06 ( 277.06 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 4:46.52 ( 286.52 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 11:11:01 CPU Time: 0 0: 4:51.56 ( 291.56 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 4:56.58 ( 296.58 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 11:11:14 CPU Time: 0 0: 5: 4.25 ( 304.25 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 11:11:22 CPU Time: 0 0: 5:12.36 ( 312.36 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 11:11:28 CPU Time: 0 0: 5:18.35 ( 318.35 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 11:11:37 CPU Time: 0 0: 5:27.10 ( 327.10 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 5:35.24 ( 335.24 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 11:11:54 CPU Time: 0 0: 5:43.87 ( 343.87 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 11:12:00 CPU Time: 0 0: 5:50.13 ( 350.13 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 11:12:10 CPU Time: 0 0: 5:59.95 ( 359.95 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 6: 9.77 ( 369.77 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 11:12:27 CPU Time: 0 0: 6:16.70 ( 376.70 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 11:12:38 CPU Time: 0 0: 6:28.13 ( 388.13 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 11:12:51 CPU Time: 0 0: 6:40.45 ( 400.45 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 6:52.33 ( 412.33 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 11:13:12 CPU Time: 0 0: 7: 1.81 ( 421.81 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606 Date: 02/14/07 Time: 11:13:21 CPU Time: 0 0: 7:11.25 ( 431.25 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609 Date: 02/14/07 Time: 11:13:32 CPU Time: 0 0: 7:22.24 ( 442.24 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612 Date: 02/14/07 Time: 11:13:42 CPU Time: 0 0: 7:31.83 ( 451.83 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
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 2615     Date: 02/14/07 Time: 11:13:56 CPU Time: 0 0: 7:45.90 ( 465.90 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
 2618     Date: 02/14/07 Time: 11:14:05 CPU Time: 0 0: 7:54.39 ( 474.39 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
 2621     Date: 02/14/07 Time: 11:14:19 CPU Time: 0 0: 8: 8.61 ( 488.61 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
 2624     Date: 02/14/07 Time: 11:14:30 CPU Time: 0 0: 8:18.96 ( 498.96 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
 2627     Date: 02/14/07 Time: 11:14:41 CPU Time: 0 0: 8:29.94 ( 509.94 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
 2630     Date: 02/14/07 Time: 11:14:50 CPU Time: 0 0: 8:39.68 ( 519.68 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
 2633     Date: 02/14/07 Time: 11:15:04 CPU Time: 0 0: 8:53.20 ( 533.20 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
 2636     Date: 02/14/07 Time: 11:15:12 CPU Time: 0 0: 9: 1.61 ( 541.61 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
 2639     Date: 02/14/07 Time: 11:15:25 CPU Time: 0 0: 9:14.41 ( 554.41 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
 2642     Date: 02/14/07 Time: 11:15:37 CPU Time: 0 0: 9:25.82 ( 565.82 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
 2645     Date: 02/14/07 Time: 11:15:46 CPU Time: 0 0: 9:35.50 ( 575.50 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
 2648     Date: 02/14/07 Time: 11:15:57 CPU Time: 0 0: 9:46.40 ( 586.40 sec) Binary
 2650     Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
 2651     Date: 02/14/07 Time: 11:16:06 CPU Time: 0 0: 9:55.54 ( 595.54 sec) Binary
 2653     Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
 2654     Date: 02/14/07 Time: 11:16:18 CPU Time: 0 0:10: 6.89 ( 606.89 sec) Binary
 2656     Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
 2657     Date: 02/14/07 Time: 11:16:27 CPU Time: 0 0:10:16.37 ( 616.37 sec) Binary
 2659     Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
 2660     Date: 02/14/07 Time: 11:16:36 CPU Time: 0 0:10:25.48 ( 625.48 sec) Binary
 2662     Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
 2663     Date: 02/14/07 Time: 11:16:48 CPU Time: 0 0:10:36.69 ( 636.69 sec) Binary
 2665     Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
 2666     Date: 02/14/07 Time: 11:16:58 CPU Time: 0 0:10:46.86 ( 646.86 sec) Binary
 2668     Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
 2669     Date: 02/14/07 Time: 11:17:10 CPU Time: 0 0:10:59.04 ( 659.04 sec) Binary
 2671     Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
 2672     Date: 02/14/07 Time: 11:17:15 CPU Time: 0 0:11: 4.05 ( 664.05 sec) Binary
 2674     Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
 2675     Date: 02/14/07 Time: 11:17:21 CPU Time: 0 0:11: 9.58 ( 669.58 sec) Binary
 2677     Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
 2678     Date: 02/14/07 Time: 11:17:26 CPU Time: 0 0:11:14.93 ( 674.93 sec) Binary
 2680     Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
 2681     Date: 02/14/07 Time: 11:17:31 CPU Time: 0 0:11:20.03 ( 680.03 sec) Binary
 2684     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2450     Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2456     Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 ( 25.17 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 1.502175E+01 days
 2459     Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 ( 29.11 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 7.625276E+02 days
 2462     Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 ( 33.77 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 6.318104E+03 days
 2465     Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 ( 40.16 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653252E+04 days
 2468     Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 ( 48.80 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665724E+04 days
 2471     Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 ( 52.38 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667033E+04 days
 2474     Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.708680E+04 days
 2477     Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 ( 58.88 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 5.092008E+04 days
 2480     Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 ( 64.46 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 2.039729E+05 days
 2483     Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 ( 73.01 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 2.274452E+05 days
 2486     Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 ( 82.77 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.652467E+05 days
 2489     Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 ( 90.87 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652814E+05 days
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2492 Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 ( 97.34 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495 Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 ( 103.81 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498 Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 ( 111.39 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501 Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 ( 113.43 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504 Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 ( 117.61 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507 Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 ( 124.83 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510 Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 ( 134.54 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513 Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 ( 141.59 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516 Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 ( 148.36 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519 Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 ( 150.77 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522 Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 ( 155.71 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525 Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 ( 162.48 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528 Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 ( 166.34 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531 Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 ( 171.71 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534 Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 ( 176.26 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537 Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 ( 184.67 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540 Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 ( 189.34 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543 Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 ( 197.23 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546 Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 ( 201.47 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549 Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 ( 205.54 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552 Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 ( 210.57 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555 Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 ( 217.88 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558 Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 ( 221.77 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561 Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 ( 225.65 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564 Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 ( 231.58 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567 Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 ( 237.85 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570 Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 ( 242.54 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573 Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 ( 249.44 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576 Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 ( 255.87 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579 Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 ( 262.56 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582 Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 ( 267.48 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585 Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 ( 275.26 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588 Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 ( 283.04 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591 Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 ( 288.52 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594 Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 ( 297.51 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597 Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 ( 307.24 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600 Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 ( 316.63 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603 Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
```

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 2606     Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 ( 331.57 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
 2609     Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 ( 340.26 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
 2612     Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 ( 347.86 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
 2615     Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 ( 359.01 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
 2618     Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 ( 365.77 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
 2621     Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 ( 377.02 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
 2624     Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
 2627     Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 ( 393.92 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
 2630     Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 ( 401.33 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
 2633     Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 ( 411.09 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
 2636     Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 ( 417.17 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
 2639     Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 ( 426.42 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
 2642     Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 ( 434.66 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
 2645     Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 ( 441.63 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
 2648     Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 ( 449.70 sec) Binary
 2650     Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
 2651     Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 ( 456.78 sec) Binary
 2653     Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
 2654     Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 ( 465.54 sec) Binary
 2656     Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
 2657     Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 ( 472.89 sec) Binary
 2659     Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
 2660     Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 ( 479.97 sec) Binary
 2662     Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
 2663     Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 ( 488.67 sec) Binary
 2665     Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
 2666     Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 ( 496.55 sec) Binary
 2668     Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
 2669     Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 ( 505.99 sec) Binary
 2671     Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
 2672     Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 ( 509.90 sec) Binary
 2674     Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
 2675     Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 ( 514.31 sec) Binary
 2677     Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
 2678     Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 ( 518.42 sec) Binary
 2680     Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
 2681     Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 ( 522.20 sec) Binary
 2684     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
 2700     CPU Time (this time step) = 0.26 sec = 0.00007 hr
 2701     CPU Time (total for run) = 684.04 sec = 0.19001 hr
 2702     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2700     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2701     CPU Time (total for run) = 525.21 sec = 0.14589 hr
 2702     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1
 3378     Date: 02/14/07 Time: 11:17:35 CPU Time: 0 0:11:24.08 ( 684.08 sec) ASCII
 3380     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3381     Date: 02/14/07 Time: 11:17:35 CPU Time: 0 0:11:24.08 ( 684.08 sec) Binary
 3386     ****************************************************************************
 3387     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3388     * Completed: 02/14/07 at 11:17:35 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3389     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 3378     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) ASCII
```

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 3380     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3381     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) Binary
 3386     ********************************************************************************
 3387     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3388     * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3389     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 172

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES40_TEST7_V012.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```

BF2_QB0600_ES40_TEST7_V013_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
    3     ** Begun on: 02/14/07 at 11:17:43 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
    3     ** Begun on: 02/14/07 at 09:59:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
```

```
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 29.79 sec = 0.00828 hr
 1774    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 21.39 sec = 0.00594 hr
 1774    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 2450     Date: 02/14/07 Time: 11:18:13 CPU Time: 0 0: 0:29.81 ( 29.81 sec) ASCII
 2452     Time Step No. = 140 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:18:13 CPU Time: 0 0: 0:29.82 ( 29.82 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 3.349069E-03 days
 2456     Date: 02/14/07 Time: 11:18:18 CPU Time: 0 0: 0:34.78 ( 34.78 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 2.938345E-01 days
 2459     Date: 02/14/07 Time: 11:18:22 CPU Time: 0 0: 0:39.39 ( 39.39 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 2.474097E+01 days
 2462     Date: 02/14/07 Time: 11:18:27 CPU Time: 0 0: 0:44.09 ( 44.09 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.724359E+02 days
 2465     Date: 02/14/07 Time: 11:18:34 CPU Time: 0 0: 0:51.32 ( 51.32 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.061273E+04 days
 2468     Date: 02/14/07 Time: 11:18:42 CPU Time: 0 0: 0:59.49 ( 59.49 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 2.155677E+04 days
 2471     Date: 02/14/07 Time: 11:18:52 CPU Time: 0 0: 1: 9.00 ( 69.00 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 3.652647E+04 days
 2474     Date: 02/14/07 Time: 11:18:59 CPU Time: 0 0: 1:16.33 ( 76.33 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.665348E+04 days
 2477     Date: 02/14/07 Time: 11:19:06 CPU Time: 0 0: 1:22.41 ( 82.41 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665883E+04 days
 2480     Date: 02/14/07 Time: 11:19:08 CPU Time: 0 0: 1:24.85 ( 84.85 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.699010E+04 days
 2483     Date: 02/14/07 Time: 11:19:13 CPU Time: 0 0: 1:29.99 ( 89.99 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 6.033302E+04 days
 2486     Date: 02/14/07 Time: 11:19:20 CPU Time: 0 0: 1:37.04 ( 97.04 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 1.684360E+05 days
 2489     Date: 02/14/07 Time: 11:19:31 CPU Time: 0 0: 1:47.84 ( 107.84 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.612153E+05 days
 2492     Date: 02/14/07 Time: 11:19:43 CPU Time: 0 0: 1:59.40 ( 119.40 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.652431E+05 days
 2495     Date: 02/14/07 Time: 11:19:54 CPU Time: 0 0: 2:10.81 ( 130.81 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.652431E+05 days
 2498     Date: 02/14/07 Time: 11:19:58 CPU Time: 0 0: 2:14.38 ( 134.38 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 3.652440E+05 days
 2501     Date: 02/14/07 Time: 11:20:01 CPU Time: 0 0: 2:17.94 ( 137.94 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 3.652772E+05 days
 2504     Date: 02/14/07 Time: 11:20:08 CPU Time: 0 0: 2:24.31 ( 144.31 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 3.654262E+05 days
 2507     Date: 02/14/07 Time: 11:20:17 CPU Time: 0 0: 2:33.50 ( 153.50 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 3.662645E+05 days
 2510     Date: 02/14/07 Time: 11:20:23 CPU Time: 0 0: 2:39.34 ( 159.34 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 3.667286E+05 days
 2513     Date: 02/14/07 Time: 11:20:25 CPU Time: 0 0: 2:41.97 ( 161.97 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 3.669189E+05 days
 2516     Date: 02/14/07 Time: 11:20:29 CPU Time: 0 0: 2:45.47 ( 165.47 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 3.688841E+05 days
 2519     Date: 02/14/07 Time: 11:20:39 CPU Time: 0 0: 2:56.22 ( 176.22 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 3.692609E+05 days
 2522     Date: 02/14/07 Time: 11:20:47 CPU Time: 0 0: 3: 3.56 ( 183.56 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 3.727217E+05 days
 2525     Date: 02/14/07 Time: 11:20:57 CPU Time: 0 0: 3:13.75 ( 193.75 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 3.728322E+05 days
 2528     Date: 02/14/07 Time: 11:21:04 CPU Time: 0 0: 3:20.72 ( 200.72 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 3.736573E+05 days
 2531     Date: 02/14/07 Time: 11:21:10 CPU Time: 0 0: 3:26.19 ( 206.19 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 3.751879E+05 days
```

```
2534    Date: 02/14/07 Time: 11:21:20 CPU Time: 0 0: 3:36.29 ( 216.29 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537    Date: 02/14/07 Time: 11:21:27 CPU Time: 0 0: 3:43.94 ( 223.94 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540    Date: 02/14/07 Time: 11:21:33 CPU Time: 0 0: 3:49.96 ( 229.96 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543    Date: 02/14/07 Time: 11:21:41 CPU Time: 0 0: 3:57.88 ( 237.88 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546    Date: 02/14/07 Time: 11:21:49 CPU Time: 0 0: 4: 5.44 ( 245.44 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549    Date: 02/14/07 Time: 11:21:57 CPU Time: 0 0: 4:13.32 ( 253.32 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552    Date: 02/14/07 Time: 11:22:04 CPU Time: 0 0: 4:20.55 ( 260.55 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555    Date: 02/14/07 Time: 11:22:12 CPU Time: 0 0: 4:28.57 ( 268.57 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558    Date: 02/14/07 Time: 11:22:21 CPU Time: 0 0: 4:37.23 ( 277.23 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561    Date: 02/14/07 Time: 11:22:29 CPU Time: 0 0: 4:45.24 ( 285.24 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564    Date: 02/14/07 Time: 11:22:37 CPU Time: 0 0: 4:53.79 ( 293.79 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567    Date: 02/14/07 Time: 11:22:48 CPU Time: 0 0: 5: 4.85 ( 304.85 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570    Date: 02/14/07 Time: 11:23:01 CPU Time: 0 0: 5:17.57 ( 317.57 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573    Date: 02/14/07 Time: 11:23:10 CPU Time: 0 0: 5:26.12 ( 326.12 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576    Date: 02/14/07 Time: 11:23:21 CPU Time: 0 0: 5:37.86 ( 337.86 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579    Date: 02/14/07 Time: 11:23:31 CPU Time: 0 0: 5:47.38 ( 347.38 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582    Date: 02/14/07 Time: 11:23:42 CPU Time: 0 0: 5:57.99 ( 357.99 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585    Date: 02/14/07 Time: 11:23:53 CPU Time: 0 0: 6: 9.12 ( 369.12 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588    Date: 02/14/07 Time: 11:24:04 CPU Time: 0 0: 6:20.22 ( 380.22 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591    Date: 02/14/07 Time: 11:24:11 CPU Time: 0 0: 6:26.91 ( 386.91 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594    Date: 02/14/07 Time: 11:24:21 CPU Time: 0 0: 6:36.75 ( 396.75 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597    Date: 02/14/07 Time: 11:24:32 CPU Time: 0 0: 6:48.46 ( 408.46 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600    Date: 02/14/07 Time: 11:24:43 CPU Time: 0 0: 6:59.31 ( 419.31 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603    Date: 02/14/07 Time: 11:24:55 CPU Time: 0 0: 7:11.55 ( 431.55 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606    Date: 02/14/07 Time: 11:25:04 CPU Time: 0 0: 7:20.04 ( 440.04 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609    Date: 02/14/07 Time: 11:25:17 CPU Time: 0 0: 7:32.71 ( 452.71 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612    Date: 02/14/07 Time: 11:25:26 CPU Time: 0 0: 7:41.95 ( 461.95 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615    Date: 02/14/07 Time: 11:25:34 CPU Time: 0 0: 7:50.23 ( 470.23 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618    Date: 02/14/07 Time: 11:25:44 CPU Time: 0 0: 8: 0.18 ( 480.18 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621    Date: 02/14/07 Time: 11:25:52 CPU Time: 0 0: 8: 7.78 ( 487.78 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624    Date: 02/14/07 Time: 11:26:04 CPU Time: 0 0: 8:20.30 ( 500.30 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627    Date: 02/14/07 Time: 11:26:14 CPU Time: 0 0: 8:29.65 ( 509.65 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630    Date: 02/14/07 Time: 11:26:25 CPU Time: 0 0: 8:40.76 ( 520.76 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633    Date: 02/14/07 Time: 11:26:35 CPU Time: 0 0: 8:50.71 ( 530.71 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636    Date: 02/14/07 Time: 11:26:41 CPU Time: 0 0: 8:56.91 ( 536.91 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639    Date: 02/14/07 Time: 11:26:51 CPU Time: 0 0: 9: 7.56 ( 547.56 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642    Date: 02/14/07 Time: 11:26:59 CPU Time: 0 0: 9:15.17 ( 555.17 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645    Date: 02/14/07 Time: 11:27:08 CPU Time: 0 0: 9:24.36 ( 564.36 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
```

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 2648     Date: 02/14/07 Time: 11:27:18 CPU Time: 0 0: 9:34.32 ( 574.32 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
 2651     Date: 02/14/07 Time: 11:27:23 CPU Time: 0 0: 9:39.47 ( 579.47 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
 2654     Date: 02/14/07 Time: 11:27:34 CPU Time: 0 0: 9:49.59 ( 589.59 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
 2657     Date: 02/14/07 Time: 11:27:44 CPU Time: 0 0:10: 0.06 ( 600.06 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2660     Date: 02/14/07 Time: 11:27:51 CPU Time: 0 0:10: 7.00 ( 607.00 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2663     Date: 02/14/07 Time: 11:27:57 CPU Time: 0 0:10:13.20 ( 613.20 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2450     Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) ASCII
 2452     Time Step No. = 140 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 3.349069E-03 days
 2456     Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 ( 24.99 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 2.938345E-01 days
 2459     Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 ( 28.33 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 2.474097E+01 days
 2462     Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 ( 31.73 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.724359E+02 days
 2465     Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.061273E+04 days
 2468     Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 ( 42.87 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 2.155677E+04 days
 2471     Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 ( 49.72 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 3.652647E+04 days
 2474     Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 ( 55.02 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.665348E+04 days
 2477     Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 ( 59.42 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665883E+04 days
 2480     Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 ( 61.18 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.699010E+04 days
 2483     Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 ( 64.89 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 6.033302E+04 days
 2486     Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 ( 69.99 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 1.684360E+05 days
 2489     Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 ( 77.78 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.612153E+05 days
 2492     Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 ( 86.16 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.652431E+05 days
 2495     Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 ( 94.41 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.652431E+05 days
 2498     Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 ( 97.00 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 3.652440E+05 days
 2501     Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 ( 99.59 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 3.652772E+05 days
 2504     Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 ( 104.20 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 3.654262E+05 days
 2507     Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 ( 110.81 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 3.662645E+05 days
 2510     Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 ( 115.04 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 3.667286E+05 days
 2513     Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 ( 116.94 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 3.669189E+05 days
 2516     Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 ( 119.48 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 3.688841E+05 days
 2519     Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 ( 127.23 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 3.692609E+05 days
 2522     Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 ( 132.52 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 3.727217E+05 days
 2525     Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 ( 139.78 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 3.728322E+05 days
 2528     Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 ( 144.81 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 3.736573E+05 days
 2531     Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 ( 148.79 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 3.751879E+05 days
 2534     Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 ( 156.13 sec) Binary
 2536     Time Step No. = 700 Elapsed Time = 3.753562E+05 days
 2537     Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 ( 161.67 sec) Binary
 2539     Time Step No. = 720 Elapsed Time = 3.760316E+05 days
 2540     Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 ( 166.00 sec) Binary
 2542     Time Step No. = 740 Elapsed Time = 3.825332E+05 days
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2543    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 ( 171.74 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546    Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 ( 177.23 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549    Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 ( 182.89 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552    Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 ( 188.13 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555    Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 ( 193.93 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558    Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 ( 200.19 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561    Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 ( 206.00 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564    Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 ( 212.43 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567    Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 ( 220.80 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570    Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 ( 230.44 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573    Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 ( 236.93 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576    Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 ( 245.76 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579    Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 ( 253.00 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582    Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 ( 261.02 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585    Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 ( 269.33 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588    Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 ( 277.72 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591    Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 ( 282.82 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594    Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 ( 290.27 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597    Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 ( 299.13 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600    Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 ( 307.35 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603    Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 ( 316.62 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606    Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 ( 323.09 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609    Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 ( 333.16 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612    Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 ( 340.34 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615    Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 ( 346.69 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618    Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 ( 354.42 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621    Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 ( 360.32 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
2624    Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 ( 370.03 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
2627    Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 ( 377.28 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
2630    Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 ( 385.64 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
2633    Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 ( 392.86 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
2636    Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 ( 397.40 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
2639    Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 ( 405.00 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
2642    Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 ( 410.47 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
2645    Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 ( 417.02 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
2648    Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 ( 424.18 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
2651    Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 ( 427.89 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
2654    Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 ( 435.19 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
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 2657     Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2660     Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2663     Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 2682     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2683     CPU Time (total for run) = 616.66 sec = 0.17129 hr
 2684    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2682     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2683     CPU Time (total for run) = 454.65 sec = 0.12629 hr
 2684    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1
 3360     Date: 02/14/07 Time: 11:28:01 CPU Time: 0 0:10:16.68 ( 616.68 sec) ASCII
 3362     Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 11:28:01 CPU Time: 0 0:10:16.69 ( 616.69 sec) Binary
 3368     ********************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 11:28:01 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3371     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 3360     Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
 3362     Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
 3368     ********************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 160

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES40_TEST7_V013.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

BF2_QB0600_ES40_TEST7_V014_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
    3     ** Begun on: 02/14/07 at 11:18:47 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
    3     ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 37.02 sec = 0.01028 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 26.91 sec = 0.00747 hr
 1774     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
 2450     Date: 02/14/07 Time: 11:19:24 CPU Time: 0 0: 0:37.04 ( 37.04 sec) ASCII
 2452     Time Step No. = 143 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:19:24 CPU Time: 0 0: 0:37.05 ( 37.05 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.888386E-01 days
 2456     Date: 02/14/07 Time: 11:19:31 CPU Time: 0 0: 0:43.87 ( 43.87 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 1.049209E+01 days
 2459     Date: 02/14/07 Time: 11:19:37 CPU Time: 0 0: 0:49.56 ( 49.56 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 7.381917E+01 days
 2462     Date: 02/14/07 Time: 11:19:43 CPU Time: 0 0: 0:55.59 ( 55.59 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 1.303821E+03 days
 2465     Date: 02/14/07 Time: 11:19:51 CPU Time: 0 0: 1: 3.41 ( 63.41 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.029855E+04 days
 2468     Date: 02/14/07 Time: 11:20:00 CPU Time: 0 0: 1:12.06 ( 72.06 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 1.453486E+04 days
 2471     Date: 02/14/07 Time: 11:20:06 CPU Time: 0 0: 1:18.12 ( 78.12 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.897038E+04 days
 2474     Date: 02/14/07 Time: 11:20:13 CPU Time: 0 0: 1:25.34 ( 85.34 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.655441E+04 days
 2477     Date: 02/14/07 Time: 11:20:24 CPU Time: 0 0: 1:36.79 ( 96.79 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665178E+04 days
 2480     Date: 02/14/07 Time: 11:20:31 CPU Time: 0 0: 1:43.05 ( 103.05 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.666487E+04 days
 2483     Date: 02/14/07 Time: 11:20:33 CPU Time: 0 0: 1:45.91 ( 105.91 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.745088E+04 days
 2486     Date: 02/14/07 Time: 11:20:39 CPU Time: 0 0: 1:51.17 ( 111.17 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 6.127717E+04 days
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2489    Date: 02/14/07 Time: 11:20:48 CPU Time: 0 0: 2: 0.21 ( 120.21 sec) Binary
2491    Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492    Date: 02/14/07 Time: 11:20:56 CPU Time: 0 0: 2: 8.21 ( 128.21 sec) Binary
2494    Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495    Date: 02/14/07 Time: 11:21:03 CPU Time: 0 0: 2:15.18 ( 135.18 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498    Date: 02/14/07 Time: 11:21:18 CPU Time: 0 0: 2:30.76 ( 150.76 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501    Date: 02/14/07 Time: 11:21:29 CPU Time: 0 0: 2:41.22 ( 161.22 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504    Date: 02/14/07 Time: 11:21:44 CPU Time: 0 0: 2:56.32 ( 176.32 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507    Date: 02/14/07 Time: 11:21:50 CPU Time: 0 0: 3: 2.23 ( 182.23 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510    Date: 02/14/07 Time: 11:22:03 CPU Time: 0 0: 3:15.87 ( 195.87 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513    Date: 02/14/07 Time: 11:22:15 CPU Time: 0 0: 3:27.23 ( 207.23 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516    Date: 02/14/07 Time: 11:22:26 CPU Time: 0 0: 3:38.69 ( 218.69 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519    Date: 02/14/07 Time: 11:22:39 CPU Time: 0 0: 3:51.91 ( 231.91 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522    Date: 02/14/07 Time: 11:22:51 CPU Time: 0 0: 4: 3.45 ( 243.45 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525    Date: 02/14/07 Time: 11:23:02 CPU Time: 0 0: 4:14.41 ( 254.41 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528    Date: 02/14/07 Time: 11:23:11 CPU Time: 0 0: 4:23.18 ( 263.18 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531    Date: 02/14/07 Time: 11:23:20 CPU Time: 0 0: 4:32.24 ( 272.24 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534    Date: 02/14/07 Time: 11:23:29 CPU Time: 0 0: 4:41.48 ( 281.48 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537    Date: 02/14/07 Time: 11:23:44 CPU Time: 0 0: 4:56.55 ( 296.55 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540    Date: 02/14/07 Time: 11:23:53 CPU Time: 0 0: 5: 5.66 ( 305.66 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543    Date: 02/14/07 Time: 11:24:07 CPU Time: 0 0: 5:18.92 ( 318.92 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546    Date: 02/14/07 Time: 11:24:18 CPU Time: 0 0: 5:30.11 ( 330.11 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549    Date: 02/14/07 Time: 11:24:23 CPU Time: 0 0: 5:35.11 ( 335.11 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552    Date: 02/14/07 Time: 11:24:30 CPU Time: 0 0: 5:41.89 ( 341.89 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555    Date: 02/14/07 Time: 11:24:32 CPU Time: 0 0: 5:44.29 ( 344.29 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558    Date: 02/14/07 Time: 11:24:35 CPU Time: 0 0: 5:47.24 ( 347.24 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561    Date: 02/14/07 Time: 11:24:42 CPU Time: 0 0: 5:54.55 ( 354.55 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564    Date: 02/14/07 Time: 11:24:52 CPU Time: 0 0: 6: 4.26 ( 364.26 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567    Date: 02/14/07 Time: 11:25:03 CPU Time: 0 0: 6:15.35 ( 375.35 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570    Date: 02/14/07 Time: 11:25:12 CPU Time: 0 0: 6:24.77 ( 384.77 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573    Date: 02/14/07 Time: 11:25:24 CPU Time: 0 0: 6:36.41 ( 396.41 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576    Date: 02/14/07 Time: 11:25:33 CPU Time: 0 0: 6:45.51 ( 405.51 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579    Date: 02/14/07 Time: 11:25:44 CPU Time: 0 0: 6:55.87 ( 415.87 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582    Date: 02/14/07 Time: 11:25:52 CPU Time: 0 0: 7: 3.57 ( 423.57 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585    Date: 02/14/07 Time: 11:26:00 CPU Time: 0 0: 7:11.89 ( 431.89 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588    Date: 02/14/07 Time: 11:26:08 CPU Time: 0 0: 7:20.01 ( 440.01 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591    Date: 02/14/07 Time: 11:26:17 CPU Time: 0 0: 7:29.30 ( 449.30 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594    Date: 02/14/07 Time: 11:26:27 CPU Time: 0 0: 7:39.48 ( 459.48 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597    Date: 02/14/07 Time: 11:26:38 CPU Time: 0 0: 7:49.83 ( 469.83 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600    Date: 02/14/07 Time: 11:26:47 CPU Time: 0 0: 7:58.95 ( 478.95 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
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2603    Date: 02/14/07 Time: 11:26:55 CPU Time: 0 0: 8: 7.31 ( 487.31 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606    Date: 02/14/07 Time: 11:27:02 CPU Time: 0 0: 8:13.73 ( 493.73 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609    Date: 02/14/07 Time: 11:27:15 CPU Time: 0 0: 8:26.93 ( 506.93 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612    Date: 02/14/07 Time: 11:27:23 CPU Time: 0 0: 8:34.64 ( 514.64 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615    Date: 02/14/07 Time: 11:27:29 CPU Time: 0 0: 8:40.74 ( 520.74 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618    Date: 02/14/07 Time: 11:27:35 CPU Time: 0 0: 8:46.46 ( 526.46 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621    Date: 02/14/07 Time: 11:27:42 CPU Time: 0 0: 8:53.88 ( 533.88 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624    Date: 02/14/07 Time: 11:27:58 CPU Time: 0 0: 9:10.30 ( 550.30 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627    Date: 02/14/07 Time: 11:28:06 CPU Time: 0 0: 9:17.43 ( 557.43 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630    Date: 02/14/07 Time: 11:28:19 CPU Time: 0 0: 9:31.01 ( 571.01 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633    Date: 02/14/07 Time: 11:28:25 CPU Time: 0 0: 9:36.84 ( 576.84 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636    Date: 02/14/07 Time: 11:28:36 CPU Time: 0 0: 9:48.04 ( 588.04 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639    Date: 02/14/07 Time: 11:28:49 CPU Time: 0 0:10: 0.40 ( 600.40 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642    Date: 02/14/07 Time: 11:28:59 CPU Time: 0 0:10:10.94 ( 610.94 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645    Date: 02/14/07 Time: 11:29:12 CPU Time: 0 0:10:23.79 ( 623.79 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648    Date: 02/14/07 Time: 11:29:21 CPU Time: 0 0:10:32.74 ( 632.74 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651    Date: 02/14/07 Time: 11:29:30 CPU Time: 0 0:10:41.41 ( 641.41 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654    Date: 02/14/07 Time: 11:29:43 CPU Time: 0 0:10:54.82 ( 654.82 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657    Date: 02/14/07 Time: 11:29:55 CPU Time: 0 0:11: 6.12 ( 666.12 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660    Date: 02/14/07 Time: 11:30:03 CPU Time: 0 0:11:14.16 ( 674.16 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663    Date: 02/14/07 Time: 11:30:15 CPU Time: 0 0:11:26.18 ( 686.18 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666    Date: 02/14/07 Time: 11:30:26 CPU Time: 0 0:11:37.61 ( 697.61 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669    Date: 02/14/07 Time: 11:30:37 CPU Time: 0 0:11:48.60 ( 708.60 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672    Date: 02/14/07 Time: 11:30:49 CPU Time: 0 0:11:59.97 ( 719.97 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675    Date: 02/14/07 Time: 11:31:01 CPU Time: 0 0:12:12.40 ( 732.40 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678    Date: 02/14/07 Time: 11:31:13 CPU Time: 0 0:12:24.23 ( 744.23 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681    Date: 02/14/07 Time: 11:31:26 CPU Time: 0 0:12:36.77 ( 756.77 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
2684    Date: 02/14/07 Time: 11:31:35 CPU Time: 0 0:12:46.21 ( 766.21 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
2687    Date: 02/14/07 Time: 11:31:43 CPU Time: 0 0:12:54.14 ( 774.14 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
2690    Date: 02/14/07 Time: 11:31:55 CPU Time: 0 0:13: 6.03 ( 786.03 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
2693    Date: 02/14/07 Time: 11:32:05 CPU Time: 0 0:13:16.31 ( 796.31 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
2696    Date: 02/14/07 Time: 11:32:11 CPU Time: 0 0:13:22.12 ( 802.12 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
2699    Date: 02/14/07 Time: 11:32:21 CPU Time: 0 0:13:32.56 ( 812.56 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
2702    Date: 02/14/07 Time: 11:32:34 CPU Time: 0 0:13:45.27 ( 825.27 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
2705    Date: 02/14/07 Time: 11:32:38 CPU Time: 0 0:13:49.65 ( 829.65 sec) Binary
2708    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
2450    Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) ASCII
2452    Time Step No. = 143 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) Binary
2455    Time Step No. = 160 Elapsed Time = 1.888386E-01 days
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2456    Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
2458    Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459    Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 ( 36.02 sec) Binary
2461    Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462    Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 ( 40.41 sec) Binary
2464    Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465    Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 ( 46.07 sec) Binary
2467    Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468    Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 ( 52.32 sec) Binary
2470    Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471    Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 ( 56.71 sec) Binary
2473    Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474    Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 ( 61.94 sec) Binary
2476    Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477    Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 ( 70.21 sec) Binary
2479    Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480    Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 ( 74.75 sec) Binary
2482    Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483    Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 ( 76.82 sec) Binary
2485    Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486    Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 ( 80.62 sec) Binary
2488    Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489    Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 ( 87.44 sec) Binary
2491    Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492    Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 ( 93.46 sec) Binary
2494    Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495    Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 ( 98.69 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498    Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 ( 110.38 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501    Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 ( 118.25 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504    Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 ( 129.56 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507    Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510    Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 ( 144.25 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513    Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 ( 152.79 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516    Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 ( 161.42 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519    Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 ( 171.58 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522    Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 ( 180.53 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525    Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 ( 189.00 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528    Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 ( 195.78 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531    Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534    Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 ( 209.88 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537    Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 ( 221.79 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540    Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 ( 228.88 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543    Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 ( 239.31 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546    Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 ( 248.15 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549    Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 ( 252.13 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552    Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 ( 257.51 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555    Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 ( 259.43 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558    Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 ( 261.79 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561    Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 ( 267.60 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564    Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 ( 275.32 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567    Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 ( 284.10 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 4.157257E+05 days
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2570    Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 ( 291.54 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573    Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 ( 300.75 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576    Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 ( 307.97 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579    Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 ( 316.19 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582    Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 ( 322.28 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585    Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 ( 328.87 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588    Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 ( 335.32 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591    Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 ( 342.67 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594    Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 ( 350.75 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597    Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 ( 358.97 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600    Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 ( 366.17 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603    Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 ( 372.69 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606    Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 ( 377.80 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609    Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 ( 388.25 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612    Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 ( 394.36 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615    Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 ( 399.20 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618    Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621    Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 ( 409.61 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624    Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 ( 422.61 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627    Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 ( 428.26 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630    Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 ( 439.01 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633    Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 ( 443.61 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636    Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 ( 452.45 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 ( 462.07 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642    Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 ( 470.15 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645    Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 ( 479.43 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648    Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 ( 485.88 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651    Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 ( 492.12 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654    Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 ( 501.81 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657    Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 ( 509.85 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660    Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 ( 515.65 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663    Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 ( 524.34 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666    Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 ( 532.59 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669    Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 ( 540.53 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672    Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 ( 548.72 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 ( 558.08 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678    Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 ( 567.41 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681    Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 ( 577.30 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
```

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 2684     Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 ( 584.77 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
 2687     Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 ( 591.05 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
 2690     Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 ( 600.43 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
 2693     Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 ( 608.20 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
 2696     Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 ( 612.70 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
 2699     Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 ( 621.00 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
 2702     Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 ( 631.05 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
 2705     Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 ( 634.52 sec) Binary
 2708     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
 2724     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2725     CPU Time (total for run) = 834.90 sec = 0.23192 hr
 2726     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 2724     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2725     CPU Time (total for run) = 638.67 sec = 0.17741 hr
 2726     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1
 3402     Date: 02/14/07 Time: 11:32:44 CPU Time: 0 0:13:54.92 ( 834.92 sec) ASCII
 3404     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3405     Date: 02/14/07 Time: 11:32:44 CPU Time: 0 0:13:54.92 ( 834.92 sec) Binary
 3410     ********************************************************************************
 3411     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3412     * Completed: 02/14/07 at 11:32:44 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3413     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 3402     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
 3404     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3405     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
 3410     ********************************************************************************
 3411     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3412     * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3413     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 188

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES40_TEST7_V014.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
```

BF2_QB0600_ES40_TEST7_V015_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
    3     ** Begun on: 02/14/07 at 11:28:08 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
    3     ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
```

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   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 50.33 sec = 0.01398 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 1772     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773     CPU Time (total for run) = 36.30 sec = 0.01008 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
 2450     Date: 02/14/07 Time: 11:28:58 CPU Time: 0 0: 0:50.35 ( 50.35 sec) ASCII
 2452     Time Step No. = 210 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:28:58 CPU Time: 0 0: 0:50.36 ( 50.36 sec) Binary
 2455     Time Step No. = 220 Elapsed Time = 2.536995E-06 days
 2456     Date: 02/14/07 Time: 11:29:02 CPU Time: 0 0: 0:54.26 ( 54.26 sec) Binary
 2458     Time Step No. = 240 Elapsed Time = 2.462139E-04 days
 2459     Date: 02/14/07 Time: 11:29:06 CPU Time: 0 0: 0:57.85 ( 57.85 sec) Binary
 2461     Time Step No. = 260 Elapsed Time = 2.138181E-02 days
 2462     Date: 02/14/07 Time: 11:29:10 CPU Time: 0 0: 1: 1.79 ( 61.79 sec) Binary
 2464     Time Step No. = 280 Elapsed Time = 8.282803E-01 days
 2465     Date: 02/14/07 Time: 11:29:17 CPU Time: 0 0: 1: 8.39 ( 68.39 sec) Binary
 2467     Time Step No. = 300 Elapsed Time = 9.304805E+00 days
 2468     Date: 02/14/07 Time: 11:29:23 CPU Time: 0 0: 1:14.80 ( 74.80 sec) Binary
 2470     Time Step No. = 320 Elapsed Time = 3.446185E+01 days
 2471     Date: 02/14/07 Time: 11:29:30 CPU Time: 0 0: 1:21.33 ( 81.33 sec) Binary
 2473     Time Step No. = 340 Elapsed Time = 3.301301E+02 days
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2474 Date: 02/14/07 Time: 11:29:36 CPU Time: 0 0: 1:27.49 ( 87.49 sec) Binary
2476 Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477 Date: 02/14/07 Time: 11:29:44 CPU Time: 0 0: 1:35.96 ( 95.96 sec) Binary
2479 Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480 Date: 02/14/07 Time: 11:29:52 CPU Time: 0 0: 1:43.87 ( 103.87 sec) Binary
2482 Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483 Date: 02/14/07 Time: 11:29:59 CPU Time: 0 0: 1:50.24 ( 110.24 sec) Binary
2485 Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486 Date: 02/14/07 Time: 11:30:10 CPU Time: 0 0: 2: 1.27 ( 121.27 sec) Binary
2488 Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489 Date: 02/14/07 Time: 11:30:18 CPU Time: 0 0: 2:10.08 ( 130.08 sec) Binary
2491 Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492 Date: 02/14/07 Time: 11:30:22 CPU Time: 0 0: 2:13.67 ( 133.67 sec) Binary
2494 Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495 Date: 02/14/07 Time: 11:30:26 CPU Time: 0 0: 2:17.29 ( 137.29 sec) Binary
2497 Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498 Date: 02/14/07 Time: 11:30:32 CPU Time: 0 0: 2:23.78 ( 143.78 sec) Binary
2500 Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501 Date: 02/14/07 Time: 11:30:42 CPU Time: 0 0: 2:33.95 ( 153.95 sec) Binary
2503 Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504 Date: 02/14/07 Time: 11:30:57 CPU Time: 0 0: 2:48.36 ( 168.36 sec) Binary
2506 Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507 Date: 02/14/07 Time: 11:31:10 CPU Time: 0 0: 3: 1.74 ( 181.74 sec) Binary
2509 Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510 Date: 02/14/07 Time: 11:31:17 CPU Time: 0 0: 3: 8.09 ( 188.09 sec) Binary
2512 Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513 Date: 02/14/07 Time: 11:31:26 CPU Time: 0 0: 3:17.48 ( 197.48 sec) Binary
2515 Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516 Date: 02/14/07 Time: 11:31:38 CPU Time: 0 0: 3:29.34 ( 209.34 sec) Binary
2518 Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519 Date: 02/14/07 Time: 11:31:51 CPU Time: 0 0: 3:42.15 ( 222.15 sec) Binary
2521 Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522 Date: 02/14/07 Time: 11:32:05 CPU Time: 0 0: 3:56.01 ( 236.01 sec) Binary
2524 Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525 Date: 02/14/07 Time: 11:32:09 CPU Time: 0 0: 4: 0.16 ( 240.16 sec) Binary
2527 Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528 Date: 02/14/07 Time: 11:32:18 CPU Time: 0 0: 4: 8.74 ( 248.74 sec) Binary
2530 Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531 Date: 02/14/07 Time: 11:32:28 CPU Time: 0 0: 4:19.27 ( 259.27 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 11:32:34 CPU Time: 0 0: 4:25.43 ( 265.43 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 11:32:40 CPU Time: 0 0: 4:31.43 ( 271.43 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 11:32:47 CPU Time: 0 0: 4:38.45 ( 278.45 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 11:32:50 CPU Time: 0 0: 4:41.00 ( 281.00 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 11:32:52 CPU Time: 0 0: 4:43.36 ( 283.36 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 11:32:58 CPU Time: 0 0: 4:49.37 ( 289.37 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 11:33:05 CPU Time: 0 0: 4:56.00 ( 296.00 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 11:33:19 CPU Time: 0 0: 5: 9.54 ( 309.54 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 11:33:27 CPU Time: 0 0: 5:17.38 ( 317.38 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 11:33:37 CPU Time: 0 0: 5:27.69 ( 327.69 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 11:33:45 CPU Time: 0 0: 5:35.27 ( 335.27 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 11:33:57 CPU Time: 0 0: 5:47.30 ( 347.30 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 11:34:03 CPU Time: 0 0: 5:53.23 ( 353.23 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 11:34:11 CPU Time: 0 0: 6: 1.20 ( 361.20 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 11:34:16 CPU Time: 0 0: 6: 6.06 ( 366.06 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 11:34:27 CPU Time: 0 0: 6:17.02 ( 377.02 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 11:34:36 CPU Time: 0 0: 6:25.94 ( 385.94 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 11:34:42 CPU Time: 0 0: 6:31.95 ( 391.95 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
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2588    Date: 02/14/07 Time: 11:34:51 CPU Time: 0 0: 6:40.94 ( 400.94 sec) Binary
2590    Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591    Date: 02/14/07 Time: 11:34:58 CPU Time: 0 0: 6:47.84 ( 407.84 sec) Binary
2593    Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594    Date: 02/14/07 Time: 11:35:05 CPU Time: 0 0: 6:55.54 ( 415.54 sec) Binary
2596    Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597    Date: 02/14/07 Time: 11:35:12 CPU Time: 0 0: 7: 2.09 ( 422.09 sec) Binary
2599    Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600    Date: 02/14/07 Time: 11:35:18 CPU Time: 0 0: 7: 8.49 ( 428.49 sec) Binary
2602    Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603    Date: 02/14/07 Time: 11:35:29 CPU Time: 0 0: 7:19.48 ( 439.48 sec) Binary
2605    Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606    Date: 02/14/07 Time: 11:35:37 CPU Time: 0 0: 7:26.83 ( 446.83 sec) Binary
2608    Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609    Date: 02/14/07 Time: 11:35:42 CPU Time: 0 0: 7:32.49 ( 452.49 sec) Binary
2611    Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612    Date: 02/14/07 Time: 11:35:59 CPU Time: 0 0: 7:49.61 ( 469.61 sec) Binary
2614    Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615    Date: 02/14/07 Time: 11:36:05 CPU Time: 0 0: 7:55.80 ( 475.80 sec) Binary
2617    Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618    Date: 02/14/07 Time: 11:36:12 CPU Time: 0 0: 8: 1.99 ( 481.99 sec) Binary
2620    Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621    Date: 02/14/07 Time: 11:36:23 CPU Time: 0 0: 8:13.09 ( 493.09 sec) Binary
2623    Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624    Date: 02/14/07 Time: 11:36:34 CPU Time: 0 0: 8:24.23 ( 504.23 sec) Binary
2626    Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627    Date: 02/14/07 Time: 11:36:41 CPU Time: 0 0: 8:31.59 ( 511.59 sec) Binary
2629    Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630    Date: 02/14/07 Time: 11:36:47 CPU Time: 0 0: 8:37.25 ( 517.25 sec) Binary
2632    Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633    Date: 02/14/07 Time: 11:36:57 CPU Time: 0 0: 8:47.29 ( 527.29 sec) Binary
2635    Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636    Date: 02/14/07 Time: 11:37:11 CPU Time: 0 0: 9: 1.46 ( 541.46 sec) Binary
2638    Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639    Date: 02/14/07 Time: 11:37:18 CPU Time: 0 0: 9: 7.92 ( 547.92 sec) Binary
2641    Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642    Date: 02/14/07 Time: 11:37:30 CPU Time: 0 0: 9:20.63 ( 560.63 sec) Binary
2644    Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645    Date: 02/14/07 Time: 11:37:40 CPU Time: 0 0: 9:30.25 ( 570.25 sec) Binary
2647    Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648    Date: 02/14/07 Time: 11:37:50 CPU Time: 0 0: 9:39.77 ( 579.77 sec) Binary
2650    Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651    Date: 02/14/07 Time: 11:38:01 CPU Time: 0 0: 9:51.16 ( 591.16 sec) Binary
2653    Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654    Date: 02/14/07 Time: 11:38:17 CPU Time: 0 0:10: 7.49 ( 607.49 sec) Binary
2656    Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657    Date: 02/14/07 Time: 11:38:24 CPU Time: 0 0:10:13.76 ( 613.76 sec) Binary
2659    Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660    Date: 02/14/07 Time: 11:38:37 CPU Time: 0 0:10:27.18 ( 627.18 sec) Binary
2662    Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663    Date: 02/14/07 Time: 11:38:42 CPU Time: 0 0:10:32.48 ( 632.48 sec) Binary
2665    Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666    Date: 02/14/07 Time: 11:38:54 CPU Time: 0 0:10:44.15 ( 644.15 sec) Binary
2668    Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669    Date: 02/14/07 Time: 11:38:59 CPU Time: 0 0:10:49.54 ( 649.54 sec) Binary
2671    Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672    Date: 02/14/07 Time: 11:39:11 CPU Time: 0 0:11: 1.40 ( 661.40 sec) Binary
2674    Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675    Date: 02/14/07 Time: 11:39:21 CPU Time: 0 0:11:11.36 ( 671.36 sec) Binary
2677    Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678    Date: 02/14/07 Time: 11:39:31 CPU Time: 0 0:11:20.70 ( 680.70 sec) Binary
2680    Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681    Date: 02/14/07 Time: 11:39:43 CPU Time: 0 0:11:32.87 ( 692.87 sec) Binary
2683    Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684    Date: 02/14/07 Time: 11:39:50 CPU Time: 0 0:11:40.04 ( 700.04 sec) Binary
2686    Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687    Date: 02/14/07 Time: 11:39:59 CPU Time: 0 0:11:48.89 ( 708.89 sec) Binary
2689    Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690    Date: 02/14/07 Time: 11:40:05 CPU Time: 0 0:11:55.01 ( 715.01 sec) Binary
2692    Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693    Date: 02/14/07 Time: 11:40:11 CPU Time: 0 0:12: 0.86 ( 720.86 sec) Binary
2695    Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696    Date: 02/14/07 Time: 11:40:16 CPU Time: 0 0:12: 6.36 ( 726.36 sec) Binary
2698    Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699    Date: 02/14/07 Time: 11:40:28 CPU Time: 0 0:12:18.39 ( 738.39 sec) Binary
2701    Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
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2702    Date: 02/14/07 Time: 11:40:33 CPU Time: 0 0:12:22.61 ( 742.61 sec) Binary
2704    Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705    Date: 02/14/07 Time: 11:40:39 CPU Time: 0 0:12:28.88 ( 748.88 sec) Binary
2707    Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708    Date: 02/14/07 Time: 11:40:49 CPU Time: 0 0:12:38.70 ( 758.70 sec) Binary
2710    Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711    Date: 02/14/07 Time: 11:40:59 CPU Time: 0 0:12:48.85 ( 768.85 sec) Binary
2713    Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714    Date: 02/14/07 Time: 11:41:08 CPU Time: 0 0:12:57.54 ( 777.54 sec) Binary
2716    Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717    Date: 02/14/07 Time: 11:41:17 CPU Time: 0 0:13: 6.31 ( 786.31 sec) Binary
2719    Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720    Date: 02/14/07 Time: 11:41:22 CPU Time: 0 0:13:11.77 ( 791.77 sec) Binary
2722    Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723    Date: 02/14/07 Time: 11:41:28 CPU Time: 0 0:13:17.13 ( 797.13 sec) Binary
2725    Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726    Date: 02/14/07 Time: 11:41:33 CPU Time: 0 0:13:22.51 ( 802.51 sec) Binary
2728    Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729    Date: 02/14/07 Time: 11:41:39 CPU Time: 0 0:13:27.89 ( 807.89 sec) Binary
2732    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2450    Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) ASCII
2452    Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) Binary
2455    Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456    Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 ( 39.15 sec) Binary
2458    Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459    Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 ( 41.76 sec) Binary
2461    Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462    Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 ( 44.68 sec) Binary
2464    Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465    Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 ( 49.77 sec) Binary
2467    Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468    Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 ( 54.74 sec) Binary
2470    Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471    Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
2473    Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474    Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 ( 64.51 sec) Binary
2476    Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477    Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 ( 71.03 sec) Binary
2479    Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480    Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 ( 77.01 sec) Binary
2482    Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483    Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 ( 81.87 sec) Binary
2485    Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486    Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 ( 90.13 sec) Binary
2488    Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489    Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 ( 96.74 sec) Binary
2491    Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492    Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 ( 99.47 sec) Binary
2494    Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495    Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 ( 102.19 sec) Binary
2497    Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498    Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 ( 107.08 sec) Binary
2500    Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501    Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 ( 114.69 sec) Binary
2503    Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504    Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 ( 125.58 sec) Binary
2506    Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507    Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 ( 135.94 sec) Binary
2509    Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510    Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 ( 140.84 sec) Binary
2512    Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513    Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
2515    Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516    Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 ( 157.21 sec) Binary
2518    Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519    Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 ( 166.85 sec) Binary
2521    Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522    Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 ( 177.26 sec) Binary
2524    Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525    Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 ( 180.38 sec) Binary
2527    Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528    Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 ( 186.81 sec) Binary
2530    Time Step No. = 720 Elapsed Time = 3.619564E+05 days
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2531 Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 ( 194.71 sec) Binary
2533 Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534 Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 ( 199.35 sec) Binary
2536 Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537 Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 ( 203.87 sec) Binary
2539 Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540 Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 ( 209.19 sec) Binary
2542 Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543 Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 ( 211.08 sec) Binary
2545 Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546 Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 ( 212.81 sec) Binary
2548 Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549 Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 ( 217.33 sec) Binary
2551 Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552 Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 ( 222.32 sec) Binary
2554 Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555 Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 ( 232.50 sec) Binary
2557 Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558 Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
2560 Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561 Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 ( 246.20 sec) Binary
2563 Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564 Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 ( 251.92 sec) Binary
2566 Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567 Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 ( 260.97 sec) Binary
2569 Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570 Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 ( 265.42 sec) Binary
2572 Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573 Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 ( 271.41 sec) Binary
2575 Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576 Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 ( 275.07 sec) Binary
2578 Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579 Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 ( 283.30 sec) Binary
2581 Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582 Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 ( 290.00 sec) Binary
2584 Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585 Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 ( 294.52 sec) Binary
2587 Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588 Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 ( 301.30 sec) Binary
2590 Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591 Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 ( 306.50 sec) Binary
2593 Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594 Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 ( 312.30 sec) Binary
2596 Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597 Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 ( 317.24 sec) Binary
2599 Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600 Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 ( 322.04 sec) Binary
2602 Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603 Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 ( 330.27 sec) Binary
2605 Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606 Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
2608 Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609 Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 ( 340.05 sec) Binary
2611 Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612 Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 ( 352.78 sec) Binary
2614 Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615 Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 ( 357.45 sec) Binary
2617 Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618 Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 ( 362.12 sec) Binary
2620 Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621 Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 ( 370.51 sec) Binary
2623 Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624 Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 ( 378.90 sec) Binary
2626 Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627 Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 ( 384.43 sec) Binary
2629 Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630 Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 ( 388.69 sec) Binary
2632 Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633 Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 ( 396.19 sec) Binary
2635 Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636 Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 ( 406.82 sec) Binary
2638 Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639 Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 ( 411.69 sec) Binary
2641 Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642 Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 ( 421.26 sec) Binary
2644 Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
```

```
2645    Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 ( 428.51 sec) Binary
2647    Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648    Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 ( 435.72 sec) Binary
2650    Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651    Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 ( 444.30 sec) Binary
2653    Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654    Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 ( 456.54 sec) Binary
2656    Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657    Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 ( 461.28 sec) Binary
2659    Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660    Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 ( 471.37 sec) Binary
2662    Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663    Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 ( 475.37 sec) Binary
2665    Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666    Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 ( 484.04 sec) Binary
2668    Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669    Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 ( 488.12 sec) Binary
2671    Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672    Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 ( 497.22 sec) Binary
2674    Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675    Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 ( 504.92 sec) Binary
2677    Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678    Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 ( 512.14 sec) Binary
2680    Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681    Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 ( 521.64 sec) Binary
2683    Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684    Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 ( 527.29 sec) Binary
2686    Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687    Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 ( 533.97 sec) Binary
2689    Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690    Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 ( 538.55 sec) Binary
2692    Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693    Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 ( 542.91 sec) Binary
2695    Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696    Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 ( 547.00 sec) Binary
2698    Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699    Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 ( 555.99 sec) Binary
2701    Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702    Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 ( 559.13 sec) Binary
2704    Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705    Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 ( 563.80 sec) Binary
2707    Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708    Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 ( 571.13 sec) Binary
2710    Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711    Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 ( 578.72 sec) Binary
2713    Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714    Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 ( 585.27 sec) Binary
2716    Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717    Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 ( 591.89 sec) Binary
2719    Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720    Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 ( 596.08 sec) Binary
2722    Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723    Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 ( 600.12 sec) Binary
2725    Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
2726    Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 ( 604.14 sec) Binary
2728    Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
2729    Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 ( 608.18 sec) Binary
2732    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
2748    CPU Time (this time step) = 0.27 sec = 0.00007 hr
2749    CPU Time (total for run) = 808.97 sec = 0.22471 hr
2750    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
2748    CPU Time (this time step) = 0.21 sec = 0.00006 hr
2749    CPU Time (total for run) = 608.99 sec = 0.16916 hr
2750    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1
3426    Date: 02/14/07 Time: 11:41:40 CPU Time: 0 0:13:28.99 ( 808.99 sec) ASCII
3428    Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
3429    Date: 02/14/07 Time: 11:41:40 CPU Time: 0 0:13:29.00 ( 809.00 sec) Binary
3434    ****************************************************************************
```

```
 3435     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3436     * Completed: 02/14/07 at 11:41:40 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3437     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 3426     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
 3428     Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
 3429     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
 3434     ****************************************************************************
 3435     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3436     * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3437     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 204

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES40_TEST7_V015.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
```

BF2_QB0600_ES40_TEST7_V016_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
    3     ** Begun on: 02/14/07 at 11:32:51 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
    3     ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.BIN;1
   82     ****************************************************************************
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 1772     CPU Time (this time step) = 0.26 sec = 0.00007 hr
 1773     CPU Time (total for run) = 29.52 sec = 0.00820 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 21.00 sec = 0.00583 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 2450     Date: 02/14/07 Time: 11:33:21 CPU Time: 0 0: 0:29.55 ( 29.55 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:33:21 CPU Time: 0 0: 0:29.55 ( 29.55 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2456     Date: 02/14/07 Time: 11:33:25 CPU Time: 0 0: 0:33.51 ( 33.51 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2459     Date: 02/14/07 Time: 11:33:30 CPU Time: 0 0: 0:38.88 ( 38.88 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2462     Date: 02/14/07 Time: 11:33:37 CPU Time: 0 0: 0:46.13 ( 46.13 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2465     Date: 02/14/07 Time: 11:33:46 CPU Time: 0 0: 0:54.79 ( 54.79 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2468     Date: 02/14/07 Time: 11:33:54 CPU Time: 0 0: 1: 3.12 ( 63.12 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2471     Date: 02/14/07 Time: 11:34:01 CPU Time: 0 0: 1: 9.39 ( 69.39 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2474     Date: 02/14/07 Time: 11:34:04 CPU Time: 0 0: 1:12.23 ( 72.23 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2477     Date: 02/14/07 Time: 11:34:09 CPU Time: 0 0: 1:17.80 ( 77.80 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2480     Date: 02/14/07 Time: 11:34:19 CPU Time: 0 0: 1:27.18 ( 87.18 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2483     Date: 02/14/07 Time: 11:34:32 CPU Time: 0 0: 1:40.24 ( 100.24 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2486     Date: 02/14/07 Time: 11:34:39 CPU Time: 0 0: 1:47.22 ( 107.22 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2489     Date: 02/14/07 Time: 11:34:49 CPU Time: 0 0: 1:58.01 ( 118.01 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.125125E+05 days
 2492     Date: 02/14/07 Time: 11:35:02 CPU Time: 0 0: 2:10.50 ( 130.50 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.133195E+05 days
 2495     Date: 02/14/07 Time: 11:35:09 CPU Time: 0 0: 2:17.46 ( 137.46 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.135730E+05 days
 2498     Date: 02/14/07 Time: 11:35:17 CPU Time: 0 0: 2:25.40 ( 145.40 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 1.168842E+05 days
 2501     Date: 02/14/07 Time: 11:35:25 CPU Time: 0 0: 2:33.80 ( 153.80 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 1.332167E+05 days
 2504     Date: 02/14/07 Time: 11:35:35 CPU Time: 0 0: 2:43.96 ( 163.96 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 1.516402E+05 days
 2507     Date: 02/14/07 Time: 11:35:48 CPU Time: 0 0: 2:56.22 ( 176.22 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 1.516853E+05 days
 2510     Date: 02/14/07 Time: 11:35:55 CPU Time: 0 0: 3: 3.30 ( 183.30 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 1.529846E+05 days
 2513     Date: 02/14/07 Time: 11:36:02 CPU Time: 0 0: 3: 9.92 ( 189.92 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 1.811566E+05 days
 2516     Date: 02/14/07 Time: 11:36:10 CPU Time: 0 0: 3:17.95 ( 197.95 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 3.652431E+05 days
 2519     Date: 02/14/07 Time: 11:36:25 CPU Time: 0 0: 3:33.66 ( 213.66 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 3.652431E+05 days
 2522     Date: 02/14/07 Time: 11:36:29 CPU Time: 0 0: 3:37.27 ( 217.27 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 3.652431E+05 days
```

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2525   Date: 02/14/07 Time: 11:36:33 CPU Time: 0 0: 3:40.88 ( 220.88 sec) Binary
2527   Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528   Date: 02/14/07 Time: 11:36:36 CPU Time: 0 0: 3:44.58 ( 224.58 sec) Binary
2530   Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531   Date: 02/14/07 Time: 11:36:42 CPU Time: 0 0: 3:50.06 ( 230.06 sec) Binary
2533   Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534   Date: 02/14/07 Time: 11:36:49 CPU Time: 0 0: 3:57.15 ( 237.15 sec) Binary
2536   Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537   Date: 02/14/07 Time: 11:36:57 CPU Time: 0 0: 4: 5.03 ( 245.03 sec) Binary
2539   Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540   Date: 02/14/07 Time: 11:37:00 CPU Time: 0 0: 4: 7.94 ( 247.94 sec) Binary
2542   Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543   Date: 02/14/07 Time: 11:37:05 CPU Time: 0 0: 4:13.33 ( 253.33 sec) Binary
2545   Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546   Date: 02/14/07 Time: 11:37:13 CPU Time: 0 0: 4:21.20 ( 261.20 sec) Binary
2548   Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549   Date: 02/14/07 Time: 11:37:21 CPU Time: 0 0: 4:29.17 ( 269.17 sec) Binary
2551   Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552   Date: 02/14/07 Time: 11:37:32 CPU Time: 0 0: 4:39.93 ( 279.93 sec) Binary
2554   Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555   Date: 02/14/07 Time: 11:37:41 CPU Time: 0 0: 4:49.39 ( 289.39 sec) Binary
2557   Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558   Date: 02/14/07 Time: 11:37:47 CPU Time: 0 0: 4:55.58 ( 295.58 sec) Binary
2560   Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561   Date: 02/14/07 Time: 11:38:00 CPU Time: 0 0: 5: 8.45 ( 308.45 sec) Binary
2563   Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564   Date: 02/14/07 Time: 11:38:12 CPU Time: 0 0: 5:19.96 ( 319.96 sec) Binary
2566   Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567   Date: 02/14/07 Time: 11:38:23 CPU Time: 0 0: 5:31.22 ( 331.22 sec) Binary
2569   Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570   Date: 02/14/07 Time: 11:38:33 CPU Time: 0 0: 5:41.26 ( 341.26 sec) Binary
2572   Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573   Date: 02/14/07 Time: 11:38:43 CPU Time: 0 0: 5:51.03 ( 351.03 sec) Binary
2575   Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576   Date: 02/14/07 Time: 11:38:56 CPU Time: 0 0: 6: 3.77 ( 363.77 sec) Binary
2578   Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579   Date: 02/14/07 Time: 11:39:07 CPU Time: 0 0: 6:15.07 ( 375.07 sec) Binary
2581   Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582   Date: 02/14/07 Time: 11:39:15 CPU Time: 0 0: 6:23.38 ( 383.38 sec) Binary
2584   Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585   Date: 02/14/07 Time: 11:39:28 CPU Time: 0 0: 6:36.05 ( 396.05 sec) Binary
2587   Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588   Date: 02/14/07 Time: 11:39:37 CPU Time: 0 0: 6:45.54 ( 405.54 sec) Binary
2590   Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591   Date: 02/14/07 Time: 11:39:52 CPU Time: 0 0: 6:59.93 ( 419.93 sec) Binary
2593   Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594   Date: 02/14/07 Time: 11:40:00 CPU Time: 0 0: 7: 8.34 ( 428.34 sec) Binary
2596   Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597   Date: 02/14/07 Time: 11:40:10 CPU Time: 0 0: 7:17.59 ( 437.59 sec) Binary
2599   Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600   Date: 02/14/07 Time: 11:40:21 CPU Time: 0 0: 7:28.82 ( 448.82 sec) Binary
2602   Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603   Date: 02/14/07 Time: 11:40:31 CPU Time: 0 0: 7:38.94 ( 458.94 sec) Binary
2605   Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606   Date: 02/14/07 Time: 11:40:42 CPU Time: 0 0: 7:50.42 ( 470.42 sec) Binary
2608   Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609   Date: 02/14/07 Time: 11:40:53 CPU Time: 0 0: 8: 1.20 ( 481.20 sec) Binary
2611   Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612   Date: 02/14/07 Time: 11:41:05 CPU Time: 0 0: 8:12.44 ( 492.44 sec) Binary
2614   Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615   Date: 02/14/07 Time: 11:41:15 CPU Time: 0 0: 8:23.03 ( 503.03 sec) Binary
2617   Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618   Date: 02/14/07 Time: 11:41:24 CPU Time: 0 0: 8:32.20 ( 512.20 sec) Binary
2620   Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621   Date: 02/14/07 Time: 11:41:33 CPU Time: 0 0: 8:41.09 ( 521.09 sec) Binary
2623   Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624   Date: 02/14/07 Time: 11:41:45 CPU Time: 0 0: 8:52.36 ( 532.36 sec) Binary
2626   Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627   Date: 02/14/07 Time: 11:41:53 CPU Time: 0 0: 9: 1.03 ( 541.03 sec) Binary
2629   Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630   Date: 02/14/07 Time: 11:42:04 CPU Time: 0 0: 9:12.05 ( 552.05 sec) Binary
2632   Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633   Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 9:22.89 ( 562.89 sec) Binary
2635   Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636   Date: 02/14/07 Time: 11:42:21 CPU Time: 0 0: 9:28.77 ( 568.77 sec) Binary
2638   Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
```

```
 2639    Date: 02/14/07 Time: 11:42:27 CPU Time: 0 0: 9:34.36 ( 574.36 sec) Binary
 2642    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2450    Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) ASCII
 2452    Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) Binary
 2455    Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2456    Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 ( 23.84 sec) Binary
 2458    Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2459    Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 ( 27.68 sec) Binary
 2461    Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2462    Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 ( 32.84 sec) Binary
 2464    Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2465    Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
 2467    Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2468    Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 ( 44.91 sec) Binary
 2470    Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2471    Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 ( 49.40 sec) Binary
 2473    Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2474    Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
 2476    Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2477    Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 ( 55.38 sec) Binary
 2479    Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2480    Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 ( 62.06 sec) Binary
 2482    Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2483    Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 ( 71.39 sec) Binary
 2485    Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2486    Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 ( 76.37 sec) Binary
 2488    Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2489    Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
 2491    Time Step No. = 380 Elapsed Time = 1.125125E+05 days
 2492    Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 ( 92.97 sec) Binary
 2494    Time Step No. = 400 Elapsed Time = 1.133195E+05 days
 2495    Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 ( 97.96 sec) Binary
 2497    Time Step No. = 420 Elapsed Time = 1.135730E+05 days
 2498    Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 ( 103.65 sec) Binary
 2500    Time Step No. = 440 Elapsed Time = 1.168842E+05 days
 2501    Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 ( 109.65 sec) Binary
 2503    Time Step No. = 460 Elapsed Time = 1.332167E+05 days
 2504    Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 ( 116.91 sec) Binary
 2506    Time Step No. = 480 Elapsed Time = 1.516402E+05 days
 2507    Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 ( 125.66 sec) Binary
 2509    Time Step No. = 500 Elapsed Time = 1.516853E+05 days
 2510    Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 ( 130.65 sec) Binary
 2512    Time Step No. = 520 Elapsed Time = 1.529846E+05 days
 2513    Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 ( 135.39 sec) Binary
 2515    Time Step No. = 540 Elapsed Time = 1.811566E+05 days
 2516    Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 ( 141.13 sec) Binary
 2518    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
 2519    Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 ( 152.36 sec) Binary
 2521    Time Step No. = 580 Elapsed Time = 3.652431E+05 days
 2522    Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 ( 154.95 sec) Binary
 2524    Time Step No. = 600 Elapsed Time = 3.652431E+05 days
 2525    Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 ( 157.54 sec) Binary
 2527    Time Step No. = 620 Elapsed Time = 3.652439E+05 days
 2528    Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 ( 160.20 sec) Binary
 2530    Time Step No. = 640 Elapsed Time = 3.652792E+05 days
 2531    Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 ( 164.42 sec) Binary
 2533    Time Step No. = 660 Elapsed Time = 3.655581E+05 days
 2534    Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 ( 169.86 sec) Binary
 2536    Time Step No. = 680 Elapsed Time = 3.665267E+05 days
 2537    Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 ( 175.92 sec) Binary
 2539    Time Step No. = 700 Elapsed Time = 3.665372E+05 days
 2540    Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 ( 178.18 sec) Binary
 2542    Time Step No. = 720 Elapsed Time = 3.673325E+05 days
 2543    Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 ( 182.35 sec) Binary
 2545    Time Step No. = 740 Elapsed Time = 3.680882E+05 days
 2546    Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 ( 188.39 sec) Binary
 2548    Time Step No. = 760 Elapsed Time = 3.755154E+05 days
 2549    Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 ( 194.51 sec) Binary
 2551    Time Step No. = 780 Elapsed Time = 3.884150E+05 days
 2552    Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
 2554    Time Step No. = 800 Elapsed Time = 4.398143E+05 days
 2555    Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 ( 210.06 sec) Binary
 2557    Time Step No. = 820 Elapsed Time = 4.509745E+05 days
```

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 2558     Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 ( 214.82 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 6.255136E+05 days
 2561     Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 ( 224.66 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 7.581150E+05 days
 2564     Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 ( 233.47 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 7.985275E+05 days
 2567     Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 ( 242.08 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.153809E+06 days
 2570     Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 ( 249.73 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.553206E+06 days
 2573     Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.821876E+06 days
 2576     Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 ( 267.18 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.917947E+06 days
 2579     Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 ( 276.04 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.957679E+06 days
 2582     Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
 2585     Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 ( 292.52 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
 2588     Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 ( 299.94 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
 2591     Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 ( 311.16 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
 2594     Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 ( 317.74 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
 2597     Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 ( 325.01 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
 2600     Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 ( 333.82 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
 2603     Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 ( 341.72 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
 2606     Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 ( 350.60 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
 2609     Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 ( 358.80 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
 2612     Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 ( 367.41 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
 2615     Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 ( 375.34 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
 2618     Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 ( 382.23 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
 2621     Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 ( 388.91 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
 2624     Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 ( 397.21 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
 2627     Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 ( 403.28 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
 2630     Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 ( 411.12 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
 2633     Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 ( 418.83 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
 2636     Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 ( 423.01 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
 2639     Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 2658     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2659     CPU Time (total for run) = 578.56 sec = 0.16071 hr
 2660    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2658     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2659     CPU Time (total for run) = 430.01 sec = 0.11945 hr
 2660    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1
 3336     Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 9:38.57 ( 578.57 sec) ASCII
 3338     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 9:38.58 ( 578.58 sec) Binary
 3344     ****************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 11:42:31 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
```

```
 3347     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 3336     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
 3338     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
 3344     ***************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3347     ***************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 144

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES40_TEST7_V016.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
```

BF2_QB0600_ES40_TEST7_V017_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
    3     ** Begun on: 02/14/07 at 11:41:23 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
    3     ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
   62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.BIN;1
   82     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
```

```
   82     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.ROT;1
   87     **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
   87     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 31.17 sec = 0.00866 hr
 1774     **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
 2450     Date: 02/14/07 Time: 11:41:54 CPU Time: 0 0: 0:31.20 ( 31.20 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:41:54 CPU Time: 0 0: 0:31.20 ( 31.20 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.081566E-01 days
 2456     Date: 02/14/07 Time: 11:41:58 CPU Time: 0 0: 0:35.01 ( 35.01 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.566025E+01 days
 2459     Date: 02/14/07 Time: 11:42:03 CPU Time: 0 0: 0:40.09 ( 40.09 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.805959E+03 days
 2462     Date: 02/14/07 Time: 11:42:10 CPU Time: 0 0: 0:46.93 ( 46.93 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.071373E+04 days
 2465     Date: 02/14/07 Time: 11:42:20 CPU Time: 0 0: 0:56.73 ( 56.73 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.383842E+04 days
 2468     Date: 02/14/07 Time: 11:42:30 CPU Time: 0 0: 1: 6.98 ( 66.98 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 2.798180E+04 days
 2471     Date: 02/14/07 Time: 11:42:46 CPU Time: 0 0: 1:22.26 ( 82.26 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 2.847338E+04 days
 2474     Date: 02/14/07 Time: 11:42:53 CPU Time: 0 0: 1:29.58 ( 89.58 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652452E+04 days
 2477     Date: 02/14/07 Time: 11:43:00 CPU Time: 0 0: 1:36.61 ( 96.61 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.656711E+04 days
 2480     Date: 02/14/07 Time: 11:43:07 CPU Time: 0 0: 1:43.04 ( 103.04 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.666399E+04 days
 2483     Date: 02/14/07 Time: 11:43:12 CPU Time: 0 0: 1:48.19 ( 108.19 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.668035E+04 days
 2486     Date: 02/14/07 Time: 11:43:15 CPU Time: 0 0: 1:51.05 ( 111.05 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.804994E+04 days
 2489     Date: 02/14/07 Time: 11:43:20 CPU Time: 0 0: 1:56.65 ( 116.65 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 4.830166E+04 days
 2492     Date: 02/14/07 Time: 11:43:31 CPU Time: 0 0: 2: 7.89 ( 127.89 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 5.127831E+04 days
 2495     Date: 02/14/07 Time: 11:43:46 CPU Time: 0 0: 2:22.85 ( 142.85 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 5.134701E+04 days
 2498     Date: 02/14/07 Time: 11:43:51 CPU Time: 0 0: 2:27.50 ( 147.50 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 5.218497E+04 days
 2501     Date: 02/14/07 Time: 11:44:00 CPU Time: 0 0: 2:36.68 ( 156.68 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 6.083942E+04 days
 2504     Date: 02/14/07 Time: 11:44:08 CPU Time: 0 0: 2:44.07 ( 164.07 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 7.130398E+04 days
 2507     Date: 02/14/07 Time: 11:44:19 CPU Time: 0 0: 2:55.80 ( 175.80 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 7.759660E+04 days
 2510     Date: 02/14/07 Time: 11:44:28 CPU Time: 0 0: 3: 4.47 ( 184.47 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 7.800566E+04 days
 2513     Date: 02/14/07 Time: 11:44:38 CPU Time: 0 0: 3:14.39 ( 194.39 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 7.817753E+04 days
 2516     Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 3:20.02 ( 200.02 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 8.514452E+04 days
 2519     Date: 02/14/07 Time: 11:44:51 CPU Time: 0 0: 3:27.10 ( 207.10 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 1.017547E+05 days
 2522     Date: 02/14/07 Time: 11:45:01 CPU Time: 0 0: 3:37.23 ( 217.23 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 1.389481E+05 days
 2525     Date: 02/14/07 Time: 11:45:15 CPU Time: 0 0: 3:51.35 ( 231.35 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 1.423530E+05 days
```

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2528 Date: 02/14/07 Time: 11:45:24 CPU Time: 0 0: 4: 0.11 ( 240.11 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531 Date: 02/14/07 Time: 11:45:32 CPU Time: 0 0: 4: 8.03 ( 248.03 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534 Date: 02/14/07 Time: 11:45:42 CPU Time: 0 0: 4:18.27 ( 258.27 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537 Date: 02/14/07 Time: 11:45:50 CPU Time: 0 0: 4:26.20 ( 266.20 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540 Date: 02/14/07 Time: 11:46:05 CPU Time: 0 0: 4:40.75 ( 280.75 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543 Date: 02/14/07 Time: 11:46:13 CPU Time: 0 0: 4:48.99 ( 288.99 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546 Date: 02/14/07 Time: 11:46:21 CPU Time: 0 0: 4:57.22 ( 297.22 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549 Date: 02/14/07 Time: 11:46:28 CPU Time: 0 0: 5: 3.51 ( 303.51 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552 Date: 02/14/07 Time: 11:46:34 CPU Time: 0 0: 5: 9.68 ( 309.68 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555 Date: 02/14/07 Time: 11:46:36 CPU Time: 0 0: 5:11.75 ( 311.75 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558 Date: 02/14/07 Time: 11:46:41 CPU Time: 0 0: 5:16.95 ( 316.95 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561 Date: 02/14/07 Time: 11:46:50 CPU Time: 0 0: 5:25.72 ( 325.72 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564 Date: 02/14/07 Time: 11:47:03 CPU Time: 0 0: 5:38.73 ( 338.73 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567 Date: 02/14/07 Time: 11:47:12 CPU Time: 0 0: 5:47.90 ( 347.90 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570 Date: 02/14/07 Time: 11:47:25 CPU Time: 0 0: 6: 0.20 ( 360.20 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573 Date: 02/14/07 Time: 11:47:36 CPU Time: 0 0: 6:11.13 ( 371.13 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576 Date: 02/14/07 Time: 11:47:45 CPU Time: 0 0: 6:20.02 ( 380.02 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579 Date: 02/14/07 Time: 11:47:58 CPU Time: 0 0: 6:33.54 ( 393.54 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582 Date: 02/14/07 Time: 11:48:09 CPU Time: 0 0: 6:44.24 ( 404.24 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585 Date: 02/14/07 Time: 11:48:23 CPU Time: 0 0: 6:57.46 ( 417.46 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588 Date: 02/14/07 Time: 11:48:31 CPU Time: 0 0: 7: 5.77 ( 425.77 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591 Date: 02/14/07 Time: 11:48:42 CPU Time: 0 0: 7:16.77 ( 436.77 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594 Date: 02/14/07 Time: 11:48:57 CPU Time: 0 0: 7:31.03 ( 451.03 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597 Date: 02/14/07 Time: 11:49:05 CPU Time: 0 0: 7:39.03 ( 459.03 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600 Date: 02/14/07 Time: 11:49:17 CPU Time: 0 0: 7:51.31 ( 471.31 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603 Date: 02/14/07 Time: 11:49:27 CPU Time: 0 0: 8: 0.98 ( 480.98 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606 Date: 02/14/07 Time: 11:49:38 CPU Time: 0 0: 8:12.20 ( 492.20 sec) Binary
2608 Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609 Date: 02/14/07 Time: 11:49:49 CPU Time: 0 0: 8:23.17 ( 503.17 sec) Binary
2611 Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612 Date: 02/14/07 Time: 11:49:59 CPU Time: 0 0: 8:33.36 ( 513.36 sec) Binary
2614 Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615 Date: 02/14/07 Time: 11:50:12 CPU Time: 0 0: 8:46.32 ( 526.32 sec) Binary
2617 Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618 Date: 02/14/07 Time: 11:50:24 CPU Time: 0 0: 8:57.88 ( 537.88 sec) Binary
2620 Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621 Date: 02/14/07 Time: 11:50:29 CPU Time: 0 0: 9: 3.50 ( 543.50 sec) Binary
2623 Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624 Date: 02/14/07 Time: 11:50:39 CPU Time: 0 0: 9:13.32 ( 553.32 sec) Binary
2626 Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627 Date: 02/14/07 Time: 11:50:49 CPU Time: 0 0: 9:23.16 ( 563.16 sec) Binary
2629 Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630 Date: 02/14/07 Time: 11:50:55 CPU Time: 0 0: 9:28.69 ( 568.69 sec) Binary
2632 Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2633 Date: 02/14/07 Time: 11:51:07 CPU Time: 0 0: 9:40.65 ( 580.65 sec) Binary
2635 Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636 Date: 02/14/07 Time: 11:51:13 CPU Time: 0 0: 9:46.27 ( 586.27 sec) Binary
2638 Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639 Date: 02/14/07 Time: 11:51:18 CPU Time: 0 0: 9:51.87 ( 591.87 sec) Binary
2641 Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
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 2642     Date: 02/14/07 Time: 11:51:24 CPU Time: 0 0: 9:57.55 ( 597.55 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
 2645     Date: 02/14/07 Time: 11:51:30 CPU Time: 0 0:10: 3.01 ( 603.01 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
 2648     Date: 02/14/07 Time: 11:51:35 CPU Time: 0 0:10: 8.47 ( 608.47 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 2450     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.081566E-01 days
 2456     Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 ( 26.45 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.566025E+01 days
 2459     Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 ( 30.15 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.805959E+03 days
 2462     Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 ( 35.13 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.071373E+04 days
 2465     Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 ( 42.17 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.383842E+04 days
 2468     Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 ( 49.61 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 2.798180E+04 days
 2471     Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 ( 60.82 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 2.847338E+04 days
 2474     Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 ( 66.12 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652452E+04 days
 2477     Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 ( 71.21 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.656711E+04 days
 2480     Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 ( 75.84 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.666399E+04 days
 2483     Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 ( 79.58 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.668035E+04 days
 2486     Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 ( 81.65 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.804994E+04 days
 2489     Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 ( 85.72 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 4.830166E+04 days
 2492     Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 ( 93.84 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 5.127831E+04 days
 2495     Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 ( 104.68 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 5.134701E+04 days
 2498     Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 ( 108.03 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 5.218497E+04 days
 2501     Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 ( 114.68 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 6.083942E+04 days
 2504     Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 ( 120.04 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 7.130398E+04 days
 2507     Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 ( 128.50 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 7.759660E+04 days
 2510     Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 ( 134.76 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 7.800566E+04 days
 2513     Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 ( 141.94 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 7.817753E+04 days
 2516     Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 ( 146.04 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 8.514452E+04 days
 2519     Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 ( 151.03 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 1.017547E+05 days
 2522     Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 ( 158.33 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 1.389481E+05 days
 2525     Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 ( 168.53 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 1.423530E+05 days
 2528     Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 ( 174.87 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 1.864304E+05 days
 2531     Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 ( 180.63 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 1.882230E+05 days
 2534     Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 ( 188.00 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 1.986077E+05 days
 2537     Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 ( 193.70 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 2.830917E+05 days
 2540     Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 ( 204.27 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 3.158487E+05 days
 2543     Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 ( 210.22 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.652487E+05 days
 2546     Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 ( 216.16 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.653477E+05 days
 2549     Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 ( 220.60 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.666426E+05 days
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 2552     Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 ( 225.07 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.666557E+05 days
 2555     Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 ( 226.57 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 3.676756E+05 days
 2558     Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 ( 230.33 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 4.168857E+05 days
 2561     Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 ( 236.66 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 4.834104E+05 days
 2564     Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 ( 246.11 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 6.250995E+05 days
 2567     Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 ( 252.76 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 6.472604E+05 days
 2570     Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 ( 261.71 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.509338E+05 days
 2573     Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 ( 269.60 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 8.666179E+05 days
 2576     Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 ( 276.08 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 8.980547E+05 days
 2579     Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 ( 285.79 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 9.084805E+05 days
 2582     Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 ( 293.57 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
 2585     Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 ( 303.15 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
 2588     Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 ( 309.18 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
 2591     Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 ( 317.07 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
 2594     Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 ( 327.37 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
 2597     Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 ( 333.15 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
 2600     Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 ( 341.97 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
 2603     Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 ( 349.44 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
 2606     Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 ( 358.38 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
 2609     Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 ( 366.96 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
 2612     Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 ( 375.06 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
 2615     Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 ( 385.12 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
 2618     Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 ( 394.07 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
 2621     Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 ( 398.45 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
 2624     Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 ( 406.09 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
 2627     Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 ( 413.55 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
 2630     Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 ( 417.51 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
 2633     Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 ( 426.14 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
 2636     Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 ( 430.23 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
 2639     Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 ( 434.31 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
 2642     Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 ( 438.38 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
 2645     Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 ( 442.33 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
 2648     Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 ( 446.28 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
 2667     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2668     CPU Time (total for run) = 610.11 sec = 0.16947 hr
 2669     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 2667     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2668     CPU Time (total for run) = 447.46 sec = 0.12429 hr
```

```
 2669    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1
 3345     Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0:10:10.15 ( 610.15 sec) ASCII
 3347     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0:10:10.15 ( 610.15 sec) Binary
 3353     ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 11:51:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3356     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 3345     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) ASCII
 3347     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) Binary
 3353     ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES40_TEST7_V017.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
```

BF2_QB0600_ES40_TEST7_V018_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
    3     ** Begun on: 02/14/07 at 11:41:48 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
    3     ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
   62     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   72     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
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   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
   77      ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.BIN;1
   82      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
   82      ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.ROT;1
   87      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
   87      ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
 1772      CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773      CPU Time (total for run) = 27.54 sec = 0.00765 hr
 1774      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1772      CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773      CPU Time (total for run) = 19.84 sec = 0.00551 hr
 1774      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
 2450      Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 0:27.57 ( 27.57 sec) ASCII
 2452      Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 11:42:15 CPU Time: 0 0: 0:27.57 ( 27.57 sec) Binary
 2455      Time Step No. = 140 Elapsed Time = 1.852005E-01 days
 2456      Date: 02/14/07 Time: 11:42:19 CPU Time: 0 0: 0:31.35 ( 31.35 sec) Binary
 2458      Time Step No. = 160 Elapsed Time = 1.676048E+01 days
 2459      Date: 02/14/07 Time: 11:42:24 CPU Time: 0 0: 0:36.31 ( 36.31 sec) Binary
 2461      Time Step No. = 180 Elapsed Time = 9.685600E+02 days
 2462      Date: 02/14/07 Time: 11:42:31 CPU Time: 0 0: 0:43.34 ( 43.34 sec) Binary
 2464      Time Step No. = 200 Elapsed Time = 1.090054E+04 days
 2465      Date: 02/14/07 Time: 11:42:40 CPU Time: 0 0: 0:52.40 ( 52.40 sec) Binary
 2467      Time Step No. = 220 Elapsed Time = 3.542607E+04 days
 2468      Date: 02/14/07 Time: 11:42:53 CPU Time: 0 0: 1: 5.50 ( 65.50 sec) Binary
 2470      Time Step No. = 240 Elapsed Time = 3.655532E+04 days
 2471      Date: 02/14/07 Time: 11:43:02 CPU Time: 0 0: 1:14.44 ( 74.44 sec) Binary
 2473      Time Step No. = 260 Elapsed Time = 3.667264E+04 days
 2474      Date: 02/14/07 Time: 11:43:05 CPU Time: 0 0: 1:17.54 ( 77.54 sec) Binary
 2476      Time Step No. = 280 Elapsed Time = 3.673502E+04 days
 2477      Date: 02/14/07 Time: 11:43:09 CPU Time: 0 0: 1:21.44 ( 81.44 sec) Binary
 2479      Time Step No. = 300 Elapsed Time = 3.849232E+04 days
 2480      Date: 02/14/07 Time: 11:43:16 CPU Time: 0 0: 1:28.17 ( 88.17 sec) Binary
 2482      Time Step No. = 320 Elapsed Time = 4.353267E+04 days
 2483      Date: 02/14/07 Time: 11:43:28 CPU Time: 0 0: 1:40.52 ( 100.52 sec) Binary
 2485      Time Step No. = 340 Elapsed Time = 8.646290E+04 days
 2486      Date: 02/14/07 Time: 11:43:38 CPU Time: 0 0: 1:50.20 ( 110.20 sec) Binary
 2488      Time Step No. = 360 Elapsed Time = 1.956099E+05 days
 2489      Date: 02/14/07 Time: 11:43:54 CPU Time: 0 0: 2: 6.10 ( 126.10 sec) Binary
 2491      Time Step No. = 380 Elapsed Time = 2.537997E+05 days
 2492      Date: 02/14/07 Time: 11:44:06 CPU Time: 0 0: 2:18.62 ( 138.62 sec) Binary
 2494      Time Step No. = 400 Elapsed Time = 3.654102E+05 days
 2495      Date: 02/14/07 Time: 11:44:15 CPU Time: 0 0: 2:27.12 ( 147.12 sec) Binary
 2497      Time Step No. = 420 Elapsed Time = 3.660393E+05 days
 2498      Date: 02/14/07 Time: 11:44:22 CPU Time: 0 0: 2:34.30 ( 154.30 sec) Binary
 2500      Time Step No. = 440 Elapsed Time = 3.665141E+05 days
 2501      Date: 02/14/07 Time: 11:44:25 CPU Time: 0 0: 2:36.95 ( 156.95 sec) Binary
 2503      Time Step No. = 460 Elapsed Time = 3.666116E+05 days
 2504      Date: 02/14/07 Time: 11:44:28 CPU Time: 0 0: 2:39.77 ( 159.77 sec) Binary
 2506      Time Step No. = 480 Elapsed Time = 3.698164E+05 days
 2507      Date: 02/14/07 Time: 11:44:34 CPU Time: 0 0: 2:46.06 ( 166.06 sec) Binary
 2509      Time Step No. = 500 Elapsed Time = 3.836378E+05 days
 2510      Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 2:55.96 ( 175.96 sec) Binary
 2512      Time Step No. = 520 Elapsed Time = 4.773464E+05 days
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2513    Date: 02/14/07 Time: 11:44:57 CPU Time: 0 0: 3: 8.66 ( 188.66 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516    Date: 02/14/07 Time: 11:45:05 CPU Time: 0 0: 3:16.70 ( 196.70 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519    Date: 02/14/07 Time: 11:45:15 CPU Time: 0 0: 3:26.69 ( 206.69 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522    Date: 02/14/07 Time: 11:45:27 CPU Time: 0 0: 3:38.53 ( 218.53 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525    Date: 02/14/07 Time: 11:45:38 CPU Time: 0 0: 3:49.63 ( 229.63 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528    Date: 02/14/07 Time: 11:45:46 CPU Time: 0 0: 3:58.08 ( 238.08 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531    Date: 02/14/07 Time: 11:45:55 CPU Time: 0 0: 4: 6.89 ( 246.89 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534    Date: 02/14/07 Time: 11:46:06 CPU Time: 0 0: 4:18.07 ( 258.07 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537    Date: 02/14/07 Time: 11:46:16 CPU Time: 0 0: 4:27.48 ( 267.48 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540    Date: 02/14/07 Time: 11:46:20 CPU Time: 0 0: 4:31.58 ( 271.58 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543    Date: 02/14/07 Time: 11:46:30 CPU Time: 0 0: 4:41.47 ( 281.47 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546    Date: 02/14/07 Time: 11:46:39 CPU Time: 0 0: 4:50.26 ( 290.26 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549    Date: 02/14/07 Time: 11:46:46 CPU Time: 0 0: 4:58.16 ( 298.16 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552    Date: 02/14/07 Time: 11:46:58 CPU Time: 0 0: 5: 9.52 ( 309.52 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555    Date: 02/14/07 Time: 11:47:10 CPU Time: 0 0: 5:21.50 ( 321.50 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558    Date: 02/14/07 Time: 11:47:21 CPU Time: 0 0: 5:32.43 ( 332.43 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561    Date: 02/14/07 Time: 11:47:29 CPU Time: 0 0: 5:41.06 ( 341.06 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564    Date: 02/14/07 Time: 11:47:39 CPU Time: 0 0: 5:50.14 ( 350.14 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567    Date: 02/14/07 Time: 11:47:52 CPU Time: 0 0: 6: 3.18 ( 363.18 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570    Date: 02/14/07 Time: 11:47:59 CPU Time: 0 0: 6:10.39 ( 370.39 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573    Date: 02/14/07 Time: 11:48:08 CPU Time: 0 0: 6:18.84 ( 378.84 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576    Date: 02/14/07 Time: 11:48:15 CPU Time: 0 0: 6:25.59 ( 385.59 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579    Date: 02/14/07 Time: 11:48:24 CPU Time: 0 0: 6:35.43 ( 395.43 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582    Date: 02/14/07 Time: 11:48:32 CPU Time: 0 0: 6:42.63 ( 402.63 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585    Date: 02/14/07 Time: 11:48:44 CPU Time: 0 0: 6:55.24 ( 415.24 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588    Date: 02/14/07 Time: 11:48:52 CPU Time: 0 0: 7: 3.05 ( 423.05 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591    Date: 02/14/07 Time: 11:49:00 CPU Time: 0 0: 7:11.11 ( 431.11 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
2594    Date: 02/14/07 Time: 11:49:09 CPU Time: 0 0: 7:20.21 ( 440.21 sec) Binary
2597    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
2450    Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) ASCII
2452    Time Step No. = 126 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 1.852005E-01 days
2456    Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 1.676048E+01 days
2459    Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 ( 26.53 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 9.685600E+02 days
2462    Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 1.090054E+04 days
2465    Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 ( 38.77 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 3.542607E+04 days
2468    Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 ( 48.73 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.655532E+04 days
2471    Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 ( 55.72 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.667264E+04 days
2474    Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 ( 58.16 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.673502E+04 days
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2477    Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 ( 61.23 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.849232E+04 days
2480    Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 ( 66.47 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483    Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 ( 75.69 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486    Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 ( 82.85 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489    Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 ( 94.60 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492    Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 ( 103.87 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495    Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 ( 110.19 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498    Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 ( 115.53 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501    Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 ( 117.53 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504    Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 ( 119.66 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507    Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 ( 124.34 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510    Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 ( 131.72 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513    Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 ( 141.09 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516    Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 ( 146.95 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519    Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 ( 154.33 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522    Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 ( 163.10 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525    Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 ( 171.35 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528    Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 ( 177.63 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531    Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 ( 184.15 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534    Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 ( 192.64 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537    Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 ( 200.01 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540    Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 ( 203.23 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543    Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 ( 210.91 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546    Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 ( 217.77 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549    Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 ( 223.96 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552    Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 ( 232.82 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555    Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 ( 242.14 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558    Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 ( 250.66 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564    Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 ( 264.37 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567    Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570    Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 ( 280.05 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573    Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 ( 286.63 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576    Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 ( 291.88 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579    Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 ( 299.50 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582    Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 ( 305.09 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585    Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 ( 314.88 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588    Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 ( 320.98 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
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 2591     Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 ( 327.20 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
 2594     Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 ( 334.26 sec) Binary
 2597     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
 2613     CPU Time (this time step) = 0.37 sec = 0.00010 hr
 2614     CPU Time (total for run) = 441.68 sec = 0.12269 hr
 2615     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 2613     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2614     CPU Time (total for run) = 335.38 sec = 0.09316 hr
 2615     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1
 3291     Date: 02/14/07 Time: 11:49:11 CPU Time: 0 0: 7:21.71 ( 441.71 sec) ASCII
 3293     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3294     Date: 02/14/07 Time: 11:49:11 CPU Time: 0 0: 7:21.71 ( 441.71 sec) Binary
 3299     ****************************************************************************
 3300     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3301     * Completed: 02/14/07 at 11:49:11 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3302     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 3291     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
 3293     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3294     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
 3299     ****************************************************************************
 3300     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3301     * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3302     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 114

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES40_TEST7_V018.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
```

BF2_QB0600_ES40_TEST7_V019_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
    3     ** Begun on: 02/14/07 at 11:42:38 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
    3     ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
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************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   72      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   72      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.SUM;1
   77      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
   77      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.BIN;1
   82      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
   82      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.ROT;1
   87      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
   87      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 1772      CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773      CPU Time (total for run) = 42.84 sec = 0.01190 hr
 1774      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1772      CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773      CPU Time (total for run) = 32.43 sec = 0.00901 hr
 1774      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 2450      Date: 02/14/07 Time: 11:43:21 CPU Time: 0 0: 0:42.86 ( 42.86 sec) ASCII
 2452      Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 11:43:21 CPU Time: 0 0: 0:42.87 ( 42.87 sec) Binary
 2455      Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456      Date: 02/14/07 Time: 11:43:24 CPU Time: 0 0: 0:46.64 ( 46.64 sec) Binary
 2458      Time Step No. = 180 Elapsed Time = 9.919446E-01 days
 2459      Date: 02/14/07 Time: 11:43:29 CPU Time: 0 0: 0:51.40 ( 51.40 sec) Binary
 2461      Time Step No. = 200 Elapsed Time = 5.981381E+01 days
 2462      Date: 02/14/07 Time: 11:43:35 CPU Time: 0 0: 0:56.96 ( 56.96 sec) Binary
 2464      Time Step No. = 220 Elapsed Time = 8.084405E+02 days
 2465      Date: 02/14/07 Time: 11:43:42 CPU Time: 0 0: 1: 4.37 ( 64.37 sec) Binary
 2467      Time Step No. = 240 Elapsed Time = 6.597767E+03 days
 2468      Date: 02/14/07 Time: 11:43:52 CPU Time: 0 0: 1:13.78 ( 73.78 sec) Binary
 2470      Time Step No. = 260 Elapsed Time = 8.104276E+03 days
 2471      Date: 02/14/07 Time: 11:43:58 CPU Time: 0 0: 1:20.72 ( 80.72 sec) Binary
 2473      Time Step No. = 280 Elapsed Time = 1.013249E+04 days
 2474      Date: 02/14/07 Time: 11:44:04 CPU Time: 0 0: 1:26.27 ( 86.27 sec) Binary
 2476      Time Step No. = 300 Elapsed Time = 1.796897E+04 days
 2477      Date: 02/14/07 Time: 11:44:14 CPU Time: 0 0: 1:35.84 ( 95.84 sec) Binary
 2479      Time Step No. = 320 Elapsed Time = 2.541947E+04 days
 2480      Date: 02/14/07 Time: 11:44:20 CPU Time: 0 0: 1:42.24 ( 102.24 sec) Binary
 2482      Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483      Date: 02/14/07 Time: 11:44:27 CPU Time: 0 0: 1:49.66 ( 109.66 sec) Binary
 2485      Time Step No. = 360 Elapsed Time = 3.652446E+04 days
 2486      Date: 02/14/07 Time: 11:44:35 CPU Time: 0 0: 1:57.00 ( 117.00 sec) Binary
 2488      Time Step No. = 380 Elapsed Time = 3.653794E+04 days
 2489      Date: 02/14/07 Time: 11:44:39 CPU Time: 0 0: 2: 1.32 ( 121.32 sec) Binary
 2491      Time Step No. = 400 Elapsed Time = 3.665472E+04 days
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2492   Date: 02/14/07 Time: 11:44:44 CPU Time: 0 0: 2: 6.00 ( 126.00 sec) Binary
2494   Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495   Date: 02/14/07 Time: 11:44:47 CPU Time: 0 0: 2: 9.14 ( 129.14 sec) Binary
2497   Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498   Date: 02/14/07 Time: 11:44:53 CPU Time: 0 0: 2:15.45 ( 135.45 sec) Binary
2500   Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501   Date: 02/14/07 Time: 11:45:01 CPU Time: 0 0: 2:23.19 ( 143.19 sec) Binary
2503   Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504   Date: 02/14/07 Time: 11:45:16 CPU Time: 0 0: 2:37.77 ( 157.77 sec) Binary
2506   Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507   Date: 02/14/07 Time: 11:45:26 CPU Time: 0 0: 2:47.86 ( 167.86 sec) Binary
2509   Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510   Date: 02/14/07 Time: 11:45:40 CPU Time: 0 0: 3: 2.19 ( 182.19 sec) Binary
2512   Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513   Date: 02/14/07 Time: 11:45:52 CPU Time: 0 0: 3:13.98 ( 193.98 sec) Binary
2515   Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516   Date: 02/14/07 Time: 11:45:59 CPU Time: 0 0: 3:20.98 ( 200.98 sec) Binary
2518   Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519   Date: 02/14/07 Time: 11:46:10 CPU Time: 0 0: 3:32.03 ( 212.03 sec) Binary
2521   Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522   Date: 02/14/07 Time: 11:46:22 CPU Time: 0 0: 3:43.99 ( 223.99 sec) Binary
2524   Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525   Date: 02/14/07 Time: 11:46:35 CPU Time: 0 0: 3:57.45 ( 237.45 sec) Binary
2527   Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528   Date: 02/14/07 Time: 11:46:43 CPU Time: 0 0: 4: 4.77 ( 244.77 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531   Date: 02/14/07 Time: 11:46:52 CPU Time: 0 0: 4:14.30 ( 254.30 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534   Date: 02/14/07 Time: 11:47:01 CPU Time: 0 0: 4:22.98 ( 262.98 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537   Date: 02/14/07 Time: 11:47:09 CPU Time: 0 0: 4:30.74 ( 270.74 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540   Date: 02/14/07 Time: 11:47:17 CPU Time: 0 0: 4:39.24 ( 279.24 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543   Date: 02/14/07 Time: 11:47:21 CPU Time: 0 0: 4:42.56 ( 282.56 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546   Date: 02/14/07 Time: 11:47:25 CPU Time: 0 0: 4:46.50 ( 286.50 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549   Date: 02/14/07 Time: 11:47:34 CPU Time: 0 0: 4:55.44 ( 295.44 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552   Date: 02/14/07 Time: 11:47:43 CPU Time: 0 0: 5: 4.85 ( 304.85 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555   Date: 02/14/07 Time: 11:47:52 CPU Time: 0 0: 5:13.35 ( 313.35 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558   Date: 02/14/07 Time: 11:48:04 CPU Time: 0 0: 5:25.40 ( 325.40 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561   Date: 02/14/07 Time: 11:48:15 CPU Time: 0 0: 5:36.03 ( 336.03 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564   Date: 02/14/07 Time: 11:48:21 CPU Time: 0 0: 5:42.71 ( 342.71 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567   Date: 02/14/07 Time: 11:48:28 CPU Time: 0 0: 5:49.21 ( 349.21 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570   Date: 02/14/07 Time: 11:48:37 CPU Time: 0 0: 5:58.42 ( 358.42 sec) Binary
2572   Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573   Date: 02/14/07 Time: 11:48:45 CPU Time: 0 0: 6: 5.74 ( 365.74 sec) Binary
2575   Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576   Date: 02/14/07 Time: 11:48:51 CPU Time: 0 0: 6:12.18 ( 372.18 sec) Binary
2578   Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579   Date: 02/14/07 Time: 11:49:02 CPU Time: 0 0: 6:23.23 ( 383.23 sec) Binary
2581   Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582   Date: 02/14/07 Time: 11:49:12 CPU Time: 0 0: 6:33.22 ( 393.22 sec) Binary
2584   Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585   Date: 02/14/07 Time: 11:49:18 CPU Time: 0 0: 6:39.53 ( 399.53 sec) Binary
2587   Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588   Date: 02/14/07 Time: 11:49:28 CPU Time: 0 0: 6:48.96 ( 408.96 sec) Binary
2590   Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591   Date: 02/14/07 Time: 11:49:32 CPU Time: 0 0: 6:53.19 ( 413.19 sec) Binary
2593   Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594   Date: 02/14/07 Time: 11:49:40 CPU Time: 0 0: 7: 0.62 ( 420.62 sec) Binary
2596   Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597   Date: 02/14/07 Time: 11:49:47 CPU Time: 0 0: 7: 8.06 ( 428.06 sec) Binary
2599   Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600   Date: 02/14/07 Time: 11:49:56 CPU Time: 0 0: 7:17.24 ( 437.24 sec) Binary
2602   Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603   Date: 02/14/07 Time: 11:50:02 CPU Time: 0 0: 7:22.41 ( 442.41 sec) Binary
2605   Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
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2606    Date: 02/14/07 Time: 11:50:11 CPU Time: 0 0: 7:31.65 ( 451.65 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609    Date: 02/14/07 Time: 11:50:20 CPU Time: 0 0: 7:40.72 ( 460.72 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612    Date: 02/14/07 Time: 11:50:28 CPU Time: 0 0: 7:48.56 ( 468.56 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615    Date: 02/14/07 Time: 11:50:37 CPU Time: 0 0: 7:57.25 ( 477.25 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618    Date: 02/14/07 Time: 11:50:47 CPU Time: 0 0: 8: 7.97 ( 487.97 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621    Date: 02/14/07 Time: 11:50:58 CPU Time: 0 0: 8:18.59 ( 498.59 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624    Date: 02/14/07 Time: 11:51:03 CPU Time: 0 0: 8:23.52 ( 503.52 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627    Date: 02/14/07 Time: 11:51:14 CPU Time: 0 0: 8:34.46 ( 514.46 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630    Date: 02/14/07 Time: 11:51:28 CPU Time: 0 0: 8:47.67 ( 527.67 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633    Date: 02/14/07 Time: 11:51:37 CPU Time: 0 0: 8:57.37 ( 537.37 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636    Date: 02/14/07 Time: 11:51:48 CPU Time: 0 0: 9: 7.91 ( 547.91 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639    Date: 02/14/07 Time: 11:51:58 CPU Time: 0 0: 9:17.44 ( 557.44 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642    Date: 02/14/07 Time: 11:52:08 CPU Time: 0 0: 9:27.58 ( 567.58 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645    Date: 02/14/07 Time: 11:52:19 CPU Time: 0 0: 9:38.65 ( 578.65 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648    Date: 02/14/07 Time: 11:52:31 CPU Time: 0 0: 9:50.34 ( 590.34 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651    Date: 02/14/07 Time: 11:52:44 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654    Date: 02/14/07 Time: 11:52:55 CPU Time: 0 0:10:14.21 ( 614.21 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657    Date: 02/14/07 Time: 11:53:09 CPU Time: 0 0:10:27.36 ( 627.36 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660    Date: 02/14/07 Time: 11:53:21 CPU Time: 0 0:10:39.56 ( 639.56 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663    Date: 02/14/07 Time: 11:53:32 CPU Time: 0 0:10:51.08 ( 651.08 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666    Date: 02/14/07 Time: 11:53:43 CPU Time: 0 0:11: 2.26 ( 662.26 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669    Date: 02/14/07 Time: 11:53:52 CPU Time: 0 0:11:10.99 ( 670.99 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672    Date: 02/14/07 Time: 11:54:01 CPU Time: 0 0:11:20.04 ( 680.04 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675    Date: 02/14/07 Time: 11:54:10 CPU Time: 0 0:11:28.61 ( 688.61 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678    Date: 02/14/07 Time: 11:54:23 CPU Time: 0 0:11:42.15 ( 702.15 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681    Date: 02/14/07 Time: 11:54:31 CPU Time: 0 0:11:50.03 ( 710.03 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684    Date: 02/14/07 Time: 11:54:42 CPU Time: 0 0:12: 0.73 ( 720.73 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
2687    Date: 02/14/07 Time: 11:54:55 CPU Time: 0 0:12:13.48 ( 733.48 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
2690    Date: 02/14/07 Time: 11:55:05 CPU Time: 0 0:12:23.09 ( 743.09 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
2693    Date: 02/14/07 Time: 11:55:16 CPU Time: 0 0:12:34.35 ( 754.35 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
2696    Date: 02/14/07 Time: 11:55:25 CPU Time: 0 0:12:44.05 ( 764.05 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
2699    Date: 02/14/07 Time: 11:55:34 CPU Time: 0 0:12:52.01 ( 772.01 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
2702    Date: 02/14/07 Time: 11:55:44 CPU Time: 0 0:13: 2.14 ( 782.14 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
2705    Date: 02/14/07 Time: 11:55:55 CPU Time: 0 0:13:13.03 ( 793.03 sec) Binary
2707    Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
2708    Date: 02/14/07 Time: 11:56:01 CPU Time: 0 0:13:19.43 ( 799.43 sec) Binary
2710    Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
2711    Date: 02/14/07 Time: 11:56:12 CPU Time: 0 0:13:30.68 ( 810.68 sec) Binary
2713    Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
2714    Date: 02/14/07 Time: 11:56:23 CPU Time: 0 0:13:41.74 ( 821.74 sec) Binary
2716    Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
2717    Date: 02/14/07 Time: 11:56:29 CPU Time: 0 0:13:47.66 ( 827.66 sec) Binary
2720    Restart information has been written to I/O unit 2 in DISKW, file name:
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2450     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 ( 32.44 sec) ASCII
 2452     Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 ( 32.45 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 ( 35.30 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.919446E-01 days
 2459     Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 ( 38.93 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.981381E+01 days
 2462     Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 ( 43.18 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.084405E+02 days
 2465     Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 ( 48.82 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 6.597767E+03 days
 2468     Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 ( 56.00 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 8.104276E+03 days
 2471     Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.013249E+04 days
 2474     Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 ( 65.55 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 1.796897E+04 days
 2477     Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 ( 72.86 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 2.541947E+04 days
 2480     Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 ( 77.73 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483     Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 ( 83.38 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.652446E+04 days
 2486     Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 ( 88.94 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 3.653794E+04 days
 2489     Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 ( 92.23 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.665472E+04 days
 2492     Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 ( 95.80 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.667516E+04 days
 2495     Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 ( 98.18 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.724922E+04 days
 2498     Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 ( 102.84 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 5.413046E+04 days
 2501     Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 ( 108.71 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 9.100708E+04 days
 2504     Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 ( 119.87 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.470830E+05 days
 2507     Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 ( 127.71 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 2.204613E+05 days
 2510     Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 ( 138.80 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 2.691848E+05 days
 2513     Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 ( 147.70 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 2.832034E+05 days
 2516     Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 ( 152.87 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 3.061970E+05 days
 2519     Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 ( 161.02 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 3.110361E+05 days
 2522     Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 ( 169.87 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 3.237666E+05 days
 2525     Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 ( 179.95 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 3.474124E+05 days
 2528     Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 ( 185.55 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 3.652525E+05 days
 2531     Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 ( 192.79 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 3.652719E+05 days
 2534     Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 ( 199.39 sec) Binary
 2536     Time Step No. = 700 Elapsed Time = 3.653962E+05 days
 2537     Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 ( 205.32 sec) Binary
 2539     Time Step No. = 720 Elapsed Time = 3.660809E+05 days
 2540     Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 ( 211.80 sec) Binary
 2542     Time Step No. = 740 Elapsed Time = 3.665917E+05 days
 2543     Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 ( 214.31 sec) Binary
 2545     Time Step No. = 760 Elapsed Time = 3.666891E+05 days
 2546     Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 ( 217.30 sec) Binary
 2548     Time Step No. = 780 Elapsed Time = 3.685642E+05 days
 2549     Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 ( 224.04 sec) Binary
 2551     Time Step No. = 800 Elapsed Time = 3.704468E+05 days
 2552     Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 ( 231.16 sec) Binary
 2554     Time Step No. = 820 Elapsed Time = 3.728343E+05 days
 2555     Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 ( 237.58 sec) Binary
 2557     Time Step No. = 840 Elapsed Time = 3.808843E+05 days
 2558     Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 ( 246.69 sec) Binary
 2560     Time Step No. = 860 Elapsed Time = 3.829952E+05 days
```

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2561   Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 ( 254.77 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564   Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 ( 259.87 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567   Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 ( 264.73 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570   Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 ( 271.71 sec) Binary
2572   Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573   Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 ( 277.21 sec) Binary
2575   Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576   Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 ( 282.10 sec) Binary
2578   Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579   Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 ( 290.44 sec) Binary
2581   Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582   Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 ( 297.88 sec) Binary
2584   Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585   Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 ( 302.51 sec) Binary
2587   Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588   Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 ( 309.53 sec) Binary
2590   Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591   Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 ( 312.66 sec) Binary
2593   Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594   Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 ( 318.22 sec) Binary
2596   Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597   Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 ( 323.88 sec) Binary
2599   Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600   Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 ( 330.96 sec) Binary
2602   Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603   Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 ( 334.97 sec) Binary
2605   Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606   Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 ( 342.15 sec) Binary
2608   Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609   Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 ( 349.18 sec) Binary
2611   Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612   Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 ( 355.30 sec) Binary
2614   Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615   Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 ( 362.07 sec) Binary
2617   Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618   Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 ( 370.36 sec) Binary
2620   Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621   Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 ( 378.54 sec) Binary
2623   Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624   Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 ( 382.33 sec) Binary
2626   Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627   Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 ( 390.40 sec) Binary
2629   Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630   Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 ( 400.13 sec) Binary
2632   Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633   Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 ( 407.48 sec) Binary
2635   Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636   Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 ( 415.60 sec) Binary
2638   Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639   Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 ( 422.96 sec) Binary
2641   Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642   Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 ( 430.82 sec) Binary
2644   Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645   Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 ( 439.40 sec) Binary
2647   Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648   Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 ( 448.36 sec) Binary
2650   Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651   Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 ( 458.34 sec) Binary
2653   Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654   Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 ( 466.78 sec) Binary
2656   Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657   Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 ( 476.96 sec) Binary
2659   Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660   Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 ( 486.46 sec) Binary
2662   Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663   Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 ( 495.43 sec) Binary
2665   Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666   Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 ( 504.14 sec) Binary
2668   Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669   Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 ( 510.80 sec) Binary
2671   Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672   Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 ( 517.83 sec) Binary
2674   Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
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 2675     Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 ( 524.48 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
 2678     Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 ( 534.75 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
 2681     Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 ( 540.27 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
 2684     Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 ( 547.77 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
 2687     Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 ( 556.77 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
 2690     Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 ( 563.52 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
 2693     Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 ( 571.48 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
 2696     Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
 2699     Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 ( 584.01 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
 2702     Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 ( 591.15 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
 2705     Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 ( 598.80 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
 2708     Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
 2711     Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 ( 611.24 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
 2714     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 ( 619.01 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
 2717     Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 ( 623.21 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 2736     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2737     CPU Time (total for run) = 832.12 sec = 0.23114 hr
 2738     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2736     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2737     CPU Time (total for run) = 626.34 sec = 0.17398 hr
 2738     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1
 3414     Date: 02/14/07 Time: 11:56:34 CPU Time: 0 0:13:52.14 ( 832.14 sec) ASCII
 3416     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 11:56:34 CPU Time: 0 0:13:52.14 ( 832.14 sec) Binary
 3422     ****************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 11:56:34 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3425     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 3414     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
 3416     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
 3422     ****************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 196

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES40_TEST7_V019.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

BF2_QB0600_ES40_TEST7_V020_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
```

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    3     ** Begun on: 02/14/07 at 11:49:18 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
    3     ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
 1772     CPU Time (this time step) = 0.25 sec = 0.00007 hr
 1773     CPU Time (total for run) = 30.16 sec = 0.00838 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
 2450     Date: 02/14/07 Time: 11:49:48 CPU Time: 0 0: 0:30.18 ( 30.18 sec) ASCII
 2452     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
```

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2453    Date: 02/14/07 Time: 11:49:48 CPU Time: 0 0: 0:30.19 ( 30.19 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456    Date: 02/14/07 Time: 11:49:49 CPU Time: 0 0: 0:31.16 ( 31.16 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459    Date: 02/14/07 Time: 11:49:54 CPU Time: 0 0: 0:36.25 ( 36.25 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462    Date: 02/14/07 Time: 11:50:00 CPU Time: 0 0: 0:41.77 ( 41.77 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465    Date: 02/14/07 Time: 11:50:09 CPU Time: 0 0: 0:50.75 ( 50.75 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468    Date: 02/14/07 Time: 11:50:17 CPU Time: 0 0: 0:59.46 ( 59.46 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471    Date: 02/14/07 Time: 11:50:32 CPU Time: 0 0: 1:14.14 ( 74.14 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474    Date: 02/14/07 Time: 11:50:37 CPU Time: 0 0: 1:19.22 ( 79.22 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477    Date: 02/14/07 Time: 11:50:40 CPU Time: 0 0: 1:22.17 ( 82.17 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480    Date: 02/14/07 Time: 11:50:45 CPU Time: 0 0: 1:26.57 ( 86.57 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483    Date: 02/14/07 Time: 11:50:52 CPU Time: 0 0: 1:33.88 ( 93.88 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486    Date: 02/14/07 Time: 11:51:03 CPU Time: 0 0: 1:44.38 ( 104.38 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489    Date: 02/14/07 Time: 11:51:14 CPU Time: 0 0: 1:55.78 ( 115.78 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492    Date: 02/14/07 Time: 11:51:32 CPU Time: 0 0: 2:13.05 ( 133.05 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495    Date: 02/14/07 Time: 11:51:42 CPU Time: 0 0: 2:23.59 ( 143.59 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498    Date: 02/14/07 Time: 11:51:50 CPU Time: 0 0: 2:31.57 ( 151.57 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501    Date: 02/14/07 Time: 11:52:02 CPU Time: 0 0: 2:42.37 ( 162.37 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504    Date: 02/14/07 Time: 11:52:17 CPU Time: 0 0: 2:57.16 ( 177.16 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507    Date: 02/14/07 Time: 11:52:24 CPU Time: 0 0: 3: 4.48 ( 184.48 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510    Date: 02/14/07 Time: 11:52:32 CPU Time: 0 0: 3:12.72 ( 192.72 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513    Date: 02/14/07 Time: 11:52:43 CPU Time: 0 0: 3:23.72 ( 203.72 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516    Date: 02/14/07 Time: 11:52:55 CPU Time: 0 0: 3:35.04 ( 215.04 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519    Date: 02/14/07 Time: 11:53:00 CPU Time: 0 0: 3:40.19 ( 220.19 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522    Date: 02/14/07 Time: 11:53:08 CPU Time: 0 0: 3:48.53 ( 228.53 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525    Date: 02/14/07 Time: 11:53:15 CPU Time: 0 0: 3:55.08 ( 235.08 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528    Date: 02/14/07 Time: 11:53:23 CPU Time: 0 0: 4: 3.38 ( 243.38 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531    Date: 02/14/07 Time: 11:53:34 CPU Time: 0 0: 4:14.34 ( 254.34 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534    Date: 02/14/07 Time: 11:53:42 CPU Time: 0 0: 4:22.58 ( 262.58 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537    Date: 02/14/07 Time: 11:53:48 CPU Time: 0 0: 4:28.77 ( 268.77 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540    Date: 02/14/07 Time: 11:53:55 CPU Time: 0 0: 4:35.70 ( 275.70 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543    Date: 02/14/07 Time: 11:54:05 CPU Time: 0 0: 4:45.13 ( 285.13 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546    Date: 02/14/07 Time: 11:54:07 CPU Time: 0 0: 4:47.73 ( 287.73 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549    Date: 02/14/07 Time: 11:54:11 CPU Time: 0 0: 4:51.26 ( 291.26 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552    Date: 02/14/07 Time: 11:54:19 CPU Time: 0 0: 4:59.64 ( 299.64 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555    Date: 02/14/07 Time: 11:54:27 CPU Time: 0 0: 5: 7.21 ( 307.21 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558    Date: 02/14/07 Time: 11:54:36 CPU Time: 0 0: 5:16.13 ( 316.13 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561    Date: 02/14/07 Time: 11:54:46 CPU Time: 0 0: 5:26.42 ( 326.42 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564    Date: 02/14/07 Time: 11:54:54 CPU Time: 0 0: 5:33.93 ( 333.93 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 5.611927E+05 days
```

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 2567     Date: 02/14/07 Time: 11:55:04 CPU Time: 0 0: 5:43.95 ( 343.95 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 6.996660E+05 days
 2570     Date: 02/14/07 Time: 11:55:15 CPU Time: 0 0: 5:54.74 ( 354.74 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.421477E+05 days
 2573     Date: 02/14/07 Time: 11:55:25 CPU Time: 0 0: 6: 5.61 ( 365.61 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 9.138807E+05 days
 2576     Date: 02/14/07 Time: 11:55:36 CPU Time: 0 0: 6:16.14 ( 376.14 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.008458E+06 days
 2579     Date: 02/14/07 Time: 11:55:48 CPU Time: 0 0: 6:28.28 ( 388.28 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.083768E+06 days
 2582     Date: 02/14/07 Time: 11:56:01 CPU Time: 0 0: 6:41.30 ( 401.30 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
 2585     Date: 02/14/07 Time: 11:56:12 CPU Time: 0 0: 6:52.42 ( 412.42 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
 2588     Date: 02/14/07 Time: 11:56:24 CPU Time: 0 0: 7: 4.31 ( 424.31 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
 2591     Date: 02/14/07 Time: 11:56:36 CPU Time: 0 0: 7:15.92 ( 435.92 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
 2594     Date: 02/14/07 Time: 11:56:46 CPU Time: 0 0: 7:25.81 ( 445.81 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
 2597     Date: 02/14/07 Time: 11:56:58 CPU Time: 0 0: 7:38.33 ( 458.33 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
 2600     Date: 02/14/07 Time: 11:57:10 CPU Time: 0 0: 7:50.57 ( 470.57 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
 2603     Date: 02/14/07 Time: 11:57:18 CPU Time: 0 0: 7:58.41 ( 478.41 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
 2606     Date: 02/14/07 Time: 11:57:29 CPU Time: 0 0: 8: 8.99 ( 488.99 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
 2609     Date: 02/14/07 Time: 11:57:39 CPU Time: 0 0: 8:18.86 ( 498.86 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
 2612     Date: 02/14/07 Time: 11:57:50 CPU Time: 0 0: 8:30.22 ( 510.22 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
 2615     Date: 02/14/07 Time: 11:57:58 CPU Time: 0 0: 8:38.32 ( 518.32 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
 2618     Date: 02/14/07 Time: 11:58:09 CPU Time: 0 0: 8:49.41 ( 529.41 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
 2621     Date: 02/14/07 Time: 11:58:20 CPU Time: 0 0: 9: 0.36 ( 540.36 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
 2624     Date: 02/14/07 Time: 11:58:31 CPU Time: 0 0: 9:10.96 ( 550.96 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
 2627     Date: 02/14/07 Time: 11:58:36 CPU Time: 0 0: 9:15.78 ( 555.78 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
 2630     Date: 02/14/07 Time: 11:58:41 CPU Time: 0 0: 9:21.04 ( 561.04 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
 2633     Date: 02/14/07 Time: 11:58:47 CPU Time: 0 0: 9:27.40 ( 567.40 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
 2636     Date: 02/14/07 Time: 11:58:53 CPU Time: 0 0: 9:32.64 ( 572.64 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
 2639     Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:37.89 ( 577.89 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2450     Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
 2452     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 ( 23.69 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 2.563388E-02 days
 2456     Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 ( 24.43 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.725148E+00 days
 2459     Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 ( 28.34 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 3.246068E+02 days
 2462     Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 3.684633E+03 days
 2465     Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 ( 39.49 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.822136E+04 days
 2468     Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 ( 46.11 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652539E+04 days
 2471     Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 ( 57.28 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.658477E+04 days
 2474     Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 ( 61.10 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.666991E+04 days
 2477     Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 ( 63.25 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.679175E+04 days
 2480     Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 ( 66.62 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.923507E+04 days
 2483     Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 ( 72.33 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 4.281917E+04 days
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2486    Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 ( 80.54 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489    Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 ( 89.44 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492    Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 ( 102.96 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495    Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 ( 110.86 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498    Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 ( 116.96 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501    Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 ( 125.23 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504    Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 ( 136.43 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507    Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 ( 141.93 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510    Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 ( 148.17 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513    Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 ( 156.50 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516    Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519    Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 ( 169.07 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522    Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 ( 175.42 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525    Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 ( 180.42 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528    Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 ( 186.73 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531    Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 ( 195.08 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534    Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 ( 201.38 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537    Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 ( 206.10 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540    Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 ( 211.22 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543    Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 ( 218.38 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546    Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 ( 220.37 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549    Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 ( 223.07 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552    Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 ( 229.45 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555    Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 ( 235.24 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558    Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 ( 242.00 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561    Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 ( 249.80 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564    Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 ( 255.50 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 5.611927E+05 days
2567    Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 ( 263.10 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 6.996660E+05 days
2570    Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 8.421477E+05 days
2573    Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 ( 279.53 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 9.138807E+05 days
2576    Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 ( 287.51 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.008458E+06 days
2579    Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.083768E+06 days
2582    Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 ( 306.63 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
2585    Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 ( 315.09 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
2588    Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
2591    Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 ( 332.93 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
2594    Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 ( 340.42 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
2597    Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 ( 349.85 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
```

```
 2600     Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 ( 359.12 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
 2603     Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
 2606     Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 ( 373.07 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
 2609     Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
 2612     Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 ( 389.18 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
 2615     Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 ( 395.31 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
 2618     Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
 2621     Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 ( 412.44 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
 2624     Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 ( 420.87 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
 2627     Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 ( 424.71 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
 2630     Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 ( 428.91 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
 2633     Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 ( 433.99 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
 2636     Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 ( 438.18 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
 2639     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
 2658     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2659     CPU Time (total for run) = 578.33 sec = 0.16065 hr
 2660     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2658     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 2659     CPU Time (total for run) = 442.72 sec = 0.12298 hr
 2660     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1
 3336     Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:38.36 ( 578.36 sec) ASCII
 3338     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 11:58:58 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
 3344     ****************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 11:58:58 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 3347     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 3336     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
 3338     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
 3344     ****************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3347     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 144

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES40_TEST7_V020.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
```

BF2_QB0600_ES45_TEST7_V001_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
    3     ** Begun on: 02/14/07 at 10:32:50 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
    3     ** Begun on: 02/14/07 at 09:38:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_TEST7_V001.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 25.24 sec = 0.00701 hr
 1774    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 28.78 sec = 0.00799 hr
 1774    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
 2450     Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:25.26 ( 25.26 sec) ASCII
 2452     Time Step No. = 163 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:25.26 ( 25.26 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 2.119576E-04 days
```

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2456     Date: 02/14/07 Time: 10:33:19 CPU Time: 0 0: 0:28.41 ( 28.41 sec) Binary
2458     Time Step No. = 200 Elapsed Time = 1.880303E-02 days
2459     Date: 02/14/07 Time: 10:33:21 CPU Time: 0 0: 0:30.96 ( 30.96 sec) Binary
2461     Time Step No. = 220 Elapsed Time = 1.631321E+00 days
2462     Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:33.66 ( 33.66 sec) Binary
2464     Time Step No. = 240 Elapsed Time = 2.774403E+01 days
2465     Date: 02/14/07 Time: 10:33:27 CPU Time: 0 0: 0:36.65 ( 36.65 sec) Binary
2467     Time Step No. = 260 Elapsed Time = 4.892922E+02 days
2468     Date: 02/14/07 Time: 10:33:31 CPU Time: 0 0: 0:40.56 ( 40.56 sec) Binary
2470     Time Step No. = 280 Elapsed Time = 4.026427E+03 days
2471     Date: 02/14/07 Time: 10:33:36 CPU Time: 0 0: 0:45.93 ( 45.93 sec) Binary
2473     Time Step No. = 300 Elapsed Time = 1.166868E+04 days
2474     Date: 02/14/07 Time: 10:33:43 CPU Time: 0 0: 0:52.43 ( 52.43 sec) Binary
2476     Time Step No. = 320 Elapsed Time = 2.296322E+04 days
2477     Date: 02/14/07 Time: 10:33:48 CPU Time: 0 0: 0:57.89 ( 57.89 sec) Binary
2479     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2480     Date: 02/14/07 Time: 10:33:59 CPU Time: 0 0: 1: 9.10 ( 69.10 sec) Binary
2482     Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483     Date: 02/14/07 Time: 10:34:02 CPU Time: 0 0: 1:11.50 ( 71.50 sec) Binary
2485     Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486     Date: 02/14/07 Time: 10:34:04 CPU Time: 0 0: 1:14.09 ( 74.09 sec) Binary
2488     Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489     Date: 02/14/07 Time: 10:34:08 CPU Time: 0 0: 1:16.98 ( 76.98 sec) Binary
2491     Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492     Date: 02/14/07 Time: 10:34:10 CPU Time: 0 0: 1:19.57 ( 79.57 sec) Binary
2494     Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495     Date: 02/14/07 Time: 10:34:13 CPU Time: 0 0: 1:22.34 ( 82.34 sec) Binary
2497     Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498     Date: 02/14/07 Time: 10:34:15 CPU Time: 0 0: 1:24.28 ( 84.28 sec) Binary
2500     Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501     Date: 02/14/07 Time: 10:34:19 CPU Time: 0 0: 1:28.13 ( 88.13 sec) Binary
2503     Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504     Date: 02/14/07 Time: 10:34:26 CPU Time: 0 0: 1:34.85 ( 94.85 sec) Binary
2506     Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507     Date: 02/14/07 Time: 10:34:33 CPU Time: 0 0: 1:41.74 ( 101.74 sec) Binary
2509     Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510     Date: 02/14/07 Time: 10:34:41 CPU Time: 0 0: 1:50.01 ( 110.01 sec) Binary
2512     Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513     Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1:58.28 ( 118.28 sec) Binary
2515     Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516     Date: 02/14/07 Time: 10:34:53 CPU Time: 0 0: 2: 1.65 ( 121.65 sec) Binary
2518     Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519     Date: 02/14/07 Time: 10:34:58 CPU Time: 0 0: 2: 6.64 ( 126.64 sec) Binary
2521     Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522     Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 2:14.23 ( 134.23 sec) Binary
2524     Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525     Date: 02/14/07 Time: 10:35:08 CPU Time: 0 0: 2:16.70 ( 136.70 sec) Binary
2527     Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528     Date: 02/14/07 Time: 10:35:11 CPU Time: 0 0: 2:19.87 ( 139.87 sec) Binary
2530     Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531     Date: 02/14/07 Time: 10:35:18 CPU Time: 0 0: 2:26.96 ( 146.96 sec) Binary
2533     Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534     Date: 02/14/07 Time: 10:35:22 CPU Time: 0 0: 2:30.93 ( 150.93 sec) Binary
2536     Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537     Date: 02/14/07 Time: 10:35:29 CPU Time: 0 0: 2:37.57 ( 157.57 sec) Binary
2539     Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540     Date: 02/14/07 Time: 10:35:39 CPU Time: 0 0: 2:47.72 ( 167.72 sec) Binary
2542     Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543     Date: 02/14/07 Time: 10:35:47 CPU Time: 0 0: 2:54.96 ( 174.96 sec) Binary
2545     Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546     Date: 02/14/07 Time: 10:35:52 CPU Time: 0 0: 3: 0.54 ( 180.54 sec) Binary
2548     Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549     Date: 02/14/07 Time: 10:35:55 CPU Time: 0 0: 3: 3.37 ( 183.37 sec) Binary
2551     Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552     Date: 02/14/07 Time: 10:36:02 CPU Time: 0 0: 3:10.58 ( 190.58 sec) Binary
2554     Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555     Date: 02/14/07 Time: 10:36:08 CPU Time: 0 0: 3:16.31 ( 196.31 sec) Binary
2557     Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558     Date: 02/14/07 Time: 10:36:16 CPU Time: 0 0: 3:23.72 ( 203.72 sec) Binary
2560     Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561     Date: 02/14/07 Time: 10:36:21 CPU Time: 0 0: 3:29.07 ( 209.07 sec) Binary
2563     Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564     Date: 02/14/07 Time: 10:36:27 CPU Time: 0 0: 3:35.12 ( 215.12 sec) Binary
2566     Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567     Date: 02/14/07 Time: 10:36:31 CPU Time: 0 0: 3:38.61 ( 218.61 sec) Binary
2569     Time Step No. = 940 Elapsed Time = 3.853540E+05 days
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 2570     Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 3:45.58 ( 225.58 sec) Binary
 2572     Time Step No. = 960 Elapsed Time = 3.854180E+05 days
 2573     Date: 02/14/07 Time: 10:36:43 CPU Time: 0 0: 3:50.48 ( 230.48 sec) Binary
 2575     Time Step No. = 980 Elapsed Time = 3.854555E+05 days
 2576     Date: 02/14/07 Time: 10:36:47 CPU Time: 0 0: 3:55.30 ( 235.30 sec) Binary
 2578     Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
 2579     Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:59.10 ( 239.10 sec) Binary
 2581     Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
 2582     Date: 02/14/07 Time: 10:36:58 CPU Time: 0 0: 4: 5.94 ( 245.94 sec) Binary
 2584     Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
 2585     Date: 02/14/07 Time: 10:37:06 CPU Time: 0 0: 4:13.32 ( 253.32 sec) Binary
 2587     Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
 2588     Date: 02/14/07 Time: 10:37:12 CPU Time: 0 0: 4:18.94 ( 258.94 sec) Binary
 2590     Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
 2591     Date: 02/14/07 Time: 10:37:17 CPU Time: 0 0: 4:24.51 ( 264.51 sec) Binary
 2593     Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
 2594     Date: 02/14/07 Time: 10:37:25 CPU Time: 0 0: 4:31.77 ( 271.77 sec) Binary
 2596     Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
 2597     Date: 02/14/07 Time: 10:37:30 CPU Time: 0 0: 4:36.66 ( 276.66 sec) Binary
 2599     Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
 2600     Date: 02/14/07 Time: 10:37:34 CPU Time: 0 0: 4:41.41 ( 281.41 sec) Binary
 2602     Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
 2603     Date: 02/14/07 Time: 10:37:43 CPU Time: 0 0: 4:50.10 ( 290.10 sec) Binary
 2605     Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
 2606     Date: 02/14/07 Time: 10:37:48 CPU Time: 0 0: 4:55.01 ( 295.01 sec) Binary
 2608     Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
 2609     Date: 02/14/07 Time: 10:37:53 CPU Time: 0 0: 5: 0.39 ( 300.39 sec) Binary
 2611     Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
 2612     Date: 02/14/07 Time: 10:38:04 CPU Time: 0 0: 5:11.20 ( 311.20 sec) Binary
 2614     Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
 2615     Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 5:14.59 ( 314.59 sec) Binary
 2617     Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
 2618     Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5:20.01 ( 320.01 sec) Binary
 2620     Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
 2621     Date: 02/14/07 Time: 10:38:20 CPU Time: 0 0: 5:26.92 ( 326.92 sec) Binary
 2623     Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
 2624     Date: 02/14/07 Time: 10:38:24 CPU Time: 0 0: 5:30.96 ( 330.96 sec) Binary
 2626     Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
 2627     Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 5:36.31 ( 336.31 sec) Binary
 2629     Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
 2630     Date: 02/14/07 Time: 10:38:34 CPU Time: 0 0: 5:41.15 ( 341.15 sec) Binary
 2632     Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
 2633     Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:48.89 ( 348.89 sec) Binary
 2635     Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
 2636     Date: 02/14/07 Time: 10:38:50 CPU Time: 0 0: 5:56.13 ( 356.13 sec) Binary
 2638     Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
 2639     Date: 02/14/07 Time: 10:38:56 CPU Time: 0 0: 6: 2.52 ( 362.52 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
 2642     Date: 02/14/07 Time: 10:39:02 CPU Time: 0 0: 6: 8.22 ( 368.22 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
 2645     Date: 02/14/07 Time: 10:39:07 CPU Time: 0 0: 6:13.19 ( 373.19 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
 2648     Date: 02/14/07 Time: 10:39:12 CPU Time: 0 0: 6:18.08 ( 378.08 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 2450     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) ASCII
 2452     Time Step No. = 163 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:28.80 ( 28.80 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 2.119576E-04 days
 2456     Date: 02/14/07 Time: 09:39:22 CPU Time: 0 0: 0:32.42 ( 32.42 sec) Binary
 2458     Time Step No. = 200 Elapsed Time = 1.880303E-02 days
 2459     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:35.33 ( 35.33 sec) Binary
 2461     Time Step No. = 220 Elapsed Time = 1.631321E+00 days
 2462     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
 2464     Time Step No. = 240 Elapsed Time = 2.774403E+01 days
 2465     Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:41.89 ( 41.89 sec) Binary
 2467     Time Step No. = 260 Elapsed Time = 4.892922E+02 days
 2468     Date: 02/14/07 Time: 09:39:36 CPU Time: 0 0: 0:46.37 ( 46.37 sec) Binary
 2470     Time Step No. = 280 Elapsed Time = 4.026427E+03 days
 2471     Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:52.49 ( 52.49 sec) Binary
 2473     Time Step No. = 300 Elapsed Time = 1.166868E+04 days
 2474     Date: 02/14/07 Time: 09:39:50 CPU Time: 0 0: 0:59.93 ( 59.93 sec) Binary
 2476     Time Step No. = 320 Elapsed Time = 2.296322E+04 days
 2477     Date: 02/14/07 Time: 09:39:56 CPU Time: 0 0: 1: 6.17 ( 66.17 sec) Binary
 2479     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
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2480    Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:18.93 ( 78.93 sec) Binary
2482    Time Step No. = 360 Elapsed Time = 3.652431E+04 days
2483    Date: 02/14/07 Time: 09:40:12 CPU Time: 0 0: 1:21.71 ( 81.71 sec) Binary
2485    Time Step No. = 380 Elapsed Time = 3.652431E+04 days
2486    Date: 02/14/07 Time: 09:40:14 CPU Time: 0 0: 1:24.68 ( 84.68 sec) Binary
2488    Time Step No. = 400 Elapsed Time = 3.652443E+04 days
2489    Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:27.96 ( 87.96 sec) Binary
2491    Time Step No. = 420 Elapsed Time = 3.653512E+04 days
2492    Date: 02/14/07 Time: 09:40:21 CPU Time: 0 0: 1:30.92 ( 90.92 sec) Binary
2494    Time Step No. = 440 Elapsed Time = 3.668108E+04 days
2495    Date: 02/14/07 Time: 09:40:24 CPU Time: 0 0: 1:34.09 ( 94.09 sec) Binary
2497    Time Step No. = 460 Elapsed Time = 3.670152E+04 days
2498    Date: 02/14/07 Time: 09:40:26 CPU Time: 0 0: 1:36.32 ( 96.32 sec) Binary
2500    Time Step No. = 480 Elapsed Time = 3.726604E+04 days
2501    Date: 02/14/07 Time: 09:40:31 CPU Time: 0 0: 1:40.74 ( 100.74 sec) Binary
2503    Time Step No. = 500 Elapsed Time = 3.912333E+04 days
2504    Date: 02/14/07 Time: 09:40:38 CPU Time: 0 0: 1:48.09 ( 108.09 sec) Binary
2506    Time Step No. = 520 Elapsed Time = 7.687584E+04 days
2507    Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:55.62 ( 115.62 sec) Binary
2509    Time Step No. = 540 Elapsed Time = 1.534551E+05 days
2510    Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 2: 4.66 ( 124.66 sec) Binary
2512    Time Step No. = 560 Elapsed Time = 3.652432E+05 days
2513    Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2:13.73 ( 133.73 sec) Binary
2515    Time Step No. = 580 Elapsed Time = 3.652461E+05 days
2516    Date: 02/14/07 Time: 09:41:07 CPU Time: 0 0: 2:17.44 ( 137.44 sec) Binary
2518    Time Step No. = 600 Elapsed Time = 3.653145E+05 days
2519    Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:22.90 ( 142.90 sec) Binary
2521    Time Step No. = 620 Elapsed Time = 3.663770E+05 days
2522    Date: 02/14/07 Time: 09:41:21 CPU Time: 0 0: 2:31.20 ( 151.20 sec) Binary
2524    Time Step No. = 640 Elapsed Time = 3.665294E+05 days
2525    Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:33.91 ( 153.91 sec) Binary
2527    Time Step No. = 660 Elapsed Time = 3.667198E+05 days
2528    Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:37.38 ( 157.38 sec) Binary
2530    Time Step No. = 680 Elapsed Time = 3.694667E+05 days
2531    Date: 02/14/07 Time: 09:41:35 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2533    Time Step No. = 700 Elapsed Time = 3.697358E+05 days
2534    Date: 02/14/07 Time: 09:41:39 CPU Time: 0 0: 2:49.47 ( 169.47 sec) Binary
2536    Time Step No. = 720 Elapsed Time = 3.733002E+05 days
2537    Date: 02/14/07 Time: 09:41:47 CPU Time: 0 0: 2:56.71 ( 176.71 sec) Binary
2539    Time Step No. = 740 Elapsed Time = 3.764582E+05 days
2540    Date: 02/14/07 Time: 09:41:58 CPU Time: 0 0: 3: 7.76 ( 187.76 sec) Binary
2542    Time Step No. = 760 Elapsed Time = 3.766434E+05 days
2543    Date: 02/14/07 Time: 09:42:06 CPU Time: 0 0: 3:15.69 ( 195.69 sec) Binary
2545    Time Step No. = 780 Elapsed Time = 3.768308E+05 days
2546    Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3:21.79 ( 201.79 sec) Binary
2548    Time Step No. = 800 Elapsed Time = 3.769094E+05 days
2549    Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:25.09 ( 205.09 sec) Binary
2551    Time Step No. = 820 Elapsed Time = 3.804952E+05 days
2552    Date: 02/14/07 Time: 09:42:24 CPU Time: 0 0: 3:33.60 ( 213.60 sec) Binary
2554    Time Step No. = 840 Elapsed Time = 3.807620E+05 days
2555    Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:40.40 ( 220.40 sec) Binary
2557    Time Step No. = 860 Elapsed Time = 3.823931E+05 days
2558    Date: 02/14/07 Time: 09:42:39 CPU Time: 0 0: 3:49.17 ( 229.17 sec) Binary
2560    Time Step No. = 880 Elapsed Time = 3.824076E+05 days
2561    Date: 02/14/07 Time: 09:42:46 CPU Time: 0 0: 3:55.48 ( 235.48 sec) Binary
2563    Time Step No. = 900 Elapsed Time = 3.825485E+05 days
2564    Date: 02/14/07 Time: 09:42:53 CPU Time: 0 0: 4: 2.64 ( 242.64 sec) Binary
2566    Time Step No. = 920 Elapsed Time = 3.826760E+05 days
2567    Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 4: 6.78 ( 246.78 sec) Binary
2569    Time Step No. = 940 Elapsed Time = 3.853540E+05 days
2570    Date: 02/14/07 Time: 09:43:05 CPU Time: 0 0: 4:15.03 ( 255.03 sec) Binary
2572    Time Step No. = 960 Elapsed Time = 3.854180E+05 days
2573    Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4:20.82 ( 260.82 sec) Binary
2575    Time Step No. = 980 Elapsed Time = 3.854555E+05 days
2576    Date: 02/14/07 Time: 09:43:17 CPU Time: 0 0: 4:26.54 ( 266.54 sec) Binary
2578    Time Step No. = 1000 Elapsed Time = 3.865421E+05 days
2579    Date: 02/14/07 Time: 09:43:21 CPU Time: 0 0: 4:31.04 ( 271.04 sec) Binary
2581    Time Step No. = 1020 Elapsed Time = 3.977998E+05 days
2582    Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:39.14 ( 279.14 sec) Binary
2584    Time Step No. = 1040 Elapsed Time = 4.072582E+05 days
2585    Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:47.84 ( 287.84 sec) Binary
2587    Time Step No. = 1060 Elapsed Time = 4.135174E+05 days
2588    Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:54.49 ( 294.49 sec) Binary
2590    Time Step No. = 1080 Elapsed Time = 4.195838E+05 days
2591    Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 5: 1.09 ( 301.09 sec) Binary
2593    Time Step No. = 1100 Elapsed Time = 4.376889E+05 days
```

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 2594     Date: 02/14/07 Time: 09:44:00 CPU Time: 0 0: 5: 9.65 ( 309.65 sec) Binary
 2596     Time Step No. = 1120 Elapsed Time = 4.384404E+05 days
 2597     Date: 02/14/07 Time: 09:44:06 CPU Time: 0 0: 5:15.44 ( 315.44 sec) Binary
 2599     Time Step No. = 1140 Elapsed Time = 4.447569E+05 days
 2600     Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5:21.08 ( 321.08 sec) Binary
 2602     Time Step No. = 1160 Elapsed Time = 4.559149E+05 days
 2603     Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:31.27 ( 331.27 sec) Binary
 2605     Time Step No. = 1180 Elapsed Time = 4.583726E+05 days
 2606     Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:37.06 ( 337.06 sec) Binary
 2608     Time Step No. = 1200 Elapsed Time = 6.210292E+05 days
 2609     Date: 02/14/07 Time: 09:44:34 CPU Time: 0 0: 5:43.20 ( 343.20 sec) Binary
 2611     Time Step No. = 1220 Elapsed Time = 7.693890E+05 days
 2612     Date: 02/14/07 Time: 09:44:46 CPU Time: 0 0: 5:55.70 ( 355.70 sec) Binary
 2614     Time Step No. = 1240 Elapsed Time = 7.747455E+05 days
 2615     Date: 02/14/07 Time: 09:44:50 CPU Time: 0 0: 5:59.71 ( 359.71 sec) Binary
 2617     Time Step No. = 1260 Elapsed Time = 1.007898E+06 days
 2618     Date: 02/14/07 Time: 09:44:57 CPU Time: 0 0: 6: 6.05 ( 366.05 sec) Binary
 2620     Time Step No. = 1280 Elapsed Time = 1.308059E+06 days
 2621     Date: 02/14/07 Time: 09:45:05 CPU Time: 0 0: 6:13.90 ( 373.90 sec) Binary
 2623     Time Step No. = 1300 Elapsed Time = 1.328500E+06 days
 2624     Date: 02/14/07 Time: 09:45:09 CPU Time: 0 0: 6:18.31 ( 378.31 sec) Binary
 2626     Time Step No. = 1320 Elapsed Time = 1.666428E+06 days
 2627     Date: 02/14/07 Time: 09:45:15 CPU Time: 0 0: 6:24.18 ( 384.18 sec) Binary
 2629     Time Step No. = 1340 Elapsed Time = 2.066428E+06 days
 2630     Date: 02/14/07 Time: 09:45:20 CPU Time: 0 0: 6:29.48 ( 389.48 sec) Binary
 2632     Time Step No. = 1360 Elapsed Time = 2.361834E+06 days
 2633     Date: 02/14/07 Time: 09:45:29 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
 2635     Time Step No. = 1380 Elapsed Time = 2.393121E+06 days
 2636     Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 6:45.79 ( 405.79 sec) Binary
 2638     Time Step No. = 1400 Elapsed Time = 2.401318E+06 days
 2639     Date: 02/14/07 Time: 09:45:44 CPU Time: 0 0: 6:52.81 ( 412.81 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 2.468163E+06 days
 2642     Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 6:59.54 ( 419.54 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 2.865069E+06 days
 2645     Date: 02/14/07 Time: 09:45:56 CPU Time: 0 0: 7: 5.38 ( 425.38 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 3.265069E+06 days
 2648     Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 7:11.15 ( 431.15 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
 2667     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2668     CPU Time (total for run) = 382.82 sec = 0.10634 hr
 2669    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 2667     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2668     CPU Time (total for run) = 436.72 sec = 0.12131 hr
 2669    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1
 3345     Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 6:22.85 ( 382.85 sec) ASCII
 3347     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 6:22.85 ( 382.85 sec) Binary
 3353    ********************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 10:39:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3356    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1
 3345     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) ASCII
 3347     Time Step No. = 1480 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 7:16.74 ( 436.74 sec) Binary
 3353    ********************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 09:46:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356    ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES45_TEST7_V001.OUT;1-
```

PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V001]BF2_QB0600_ES47_TEST7_V001.OUT;1

BF2_QB0600_ES45_TEST7_V002_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
    3      ** Begun on: 02/14/07 at 10:32:55 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
    3      ** Begun on: 02/14/07 at 09:38:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
   62      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_TEST7_V002.INP;2
   62      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_CLOSURE.DAT;1
   67      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_CLOSURE.DAT;1
   67      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   72      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   72      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.SUM;1
   77      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.SUM;1
   77      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.BIN;1
   82      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.BIN;1
   82      ***************************************************************************
************

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.ROT;1
   87      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.ROT;1
   87      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
 1772      CPU Time (this time step) = 0.16 sec = 0.00004 hr
 1773      CPU Time (total for run) = 18.21 sec = 0.00506 hr
 1774      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
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 1772     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 1773     CPU Time (total for run) = 21.05 sec = 0.00585 hr
 1774    ***************************************************************************
************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
 2450     Date: 02/14/07 Time: 10:33:13 CPU Time: 0 0: 0:18.23 ( 18.23 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:33:13 CPU Time: 0 0: 0:18.23 ( 18.23 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
 2456     Date: 02/14/07 Time: 10:33:15 CPU Time: 0 0: 0:20.55 ( 20.55 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
 2459     Date: 02/14/07 Time: 10:33:19 CPU Time: 0 0: 0:23.86 ( 23.86 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
 2462     Date: 02/14/07 Time: 10:33:23 CPU Time: 0 0: 0:28.29 ( 28.29 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
 2465     Date: 02/14/07 Time: 10:33:29 CPU Time: 0 0: 0:33.82 ( 33.82 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.652584E+04 days
 2468     Date: 02/14/07 Time: 10:33:38 CPU Time: 0 0: 0:43.03 ( 43.03 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.659319E+04 days
 2471     Date: 02/14/07 Time: 10:33:41 CPU Time: 0 0: 0:46.51 ( 46.51 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.666452E+04 days
 2474     Date: 02/14/07 Time: 10:33:43 CPU Time: 0 0: 0:48.32 ( 48.32 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.678636E+04 days
 2477     Date: 02/14/07 Time: 10:33:46 CPU Time: 0 0: 0:51.16 ( 51.16 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.918728E+04 days
 2480     Date: 02/14/07 Time: 10:33:51 CPU Time: 0 0: 0:55.57 ( 55.57 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 5.812157E+04 days
 2483     Date: 02/14/07 Time: 10:33:58 CPU Time: 0 0: 1: 3.19 ( 63.19 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.710952E+04 days
 2486     Date: 02/14/07 Time: 10:34:04 CPU Time: 0 0: 1: 8.81 ( 68.81 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.570947E+05 days
 2489     Date: 02/14/07 Time: 10:34:12 CPU Time: 0 0: 1:16.19 ( 76.19 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.652773E+05 days
 2492     Date: 02/14/07 Time: 10:34:17 CPU Time: 0 0: 1:20.92 ( 80.92 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.654045E+05 days
 2495     Date: 02/14/07 Time: 10:34:22 CPU Time: 0 0: 1:25.67 ( 85.67 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.660244E+05 days
 2498     Date: 02/14/07 Time: 10:34:27 CPU Time: 0 0: 1:31.32 ( 91.32 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.667476E+05 days
 2501     Date: 02/14/07 Time: 10:34:29 CPU Time: 0 0: 1:33.21 ( 93.21 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.668694E+05 days
 2504     Date: 02/14/07 Time: 10:34:31 CPU Time: 0 0: 1:35.15 ( 95.15 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.774372E+05 days
 2507     Date: 02/14/07 Time: 10:34:35 CPU Time: 0 0: 1:39.36 ( 99.36 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.796809E+05 days
 2510     Date: 02/14/07 Time: 10:34:40 CPU Time: 0 0: 1:44.56 ( 104.56 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.859590E+05 days
 2513     Date: 02/14/07 Time: 10:34:44 CPU Time: 0 0: 1:48.27 ( 108.27 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 4.871131E+05 days
 2516     Date: 02/14/07 Time: 10:34:52 CPU Time: 0 0: 1:55.92 ( 115.92 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 4.930836E+05 days
 2519     Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 2: 1.22 ( 121.22 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 5.535964E+05 days
 2522     Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 2: 7.16 ( 127.16 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 5.724872E+05 days
 2525     Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 2:14.46 ( 134.46 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 5.734498E+05 days
 2528     Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 2:18.91 ( 138.91 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 5.775623E+05 days
 2531     Date: 02/14/07 Time: 10:35:19 CPU Time: 0 0: 2:23.53 ( 143.53 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 6.407566E+05 days
 2534     Date: 02/14/07 Time: 10:35:26 CPU Time: 0 0: 2:29.61 ( 149.61 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 6.744634E+05 days
 2537     Date: 02/14/07 Time: 10:35:33 CPU Time: 0 0: 2:36.92 ( 156.92 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 6.751089E+05 days
 2540     Date: 02/14/07 Time: 10:35:36 CPU Time: 0 0: 2:39.84 ( 159.84 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 6.764870E+05 days
 2543     Date: 02/14/07 Time: 10:35:43 CPU Time: 0 0: 2:47.18 ( 167.18 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 6.800027E+05 days
 2546     Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2:51.76 ( 171.76 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 6.830843E+05 days
 2549     Date: 02/14/07 Time: 10:35:52 CPU Time: 0 0: 2:55.53 ( 175.53 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 7.863709E+05 days
 2552     Date: 02/14/07 Time: 10:35:58 CPU Time: 0 0: 3: 1.61 ( 181.61 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 8.205738E+05 days
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2555     Date: 02/14/07 Time: 10:36:03 CPU Time: 0 0: 3: 6.99 ( 186.99 sec) Binary
2557     Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558     Date: 02/14/07 Time: 10:36:10 CPU Time: 0 0: 3:13.98 ( 193.98 sec) Binary
2560     Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561     Date: 02/14/07 Time: 10:36:17 CPU Time: 0 0: 3:21.03 ( 201.03 sec) Binary
2563     Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564     Date: 02/14/07 Time: 10:36:23 CPU Time: 0 0: 3:26.96 ( 206.96 sec) Binary
2566     Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567     Date: 02/14/07 Time: 10:36:28 CPU Time: 0 0: 3:31.36 ( 211.36 sec) Binary
2569     Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570     Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 3:38.28 ( 218.28 sec) Binary
2572     Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573     Date: 02/14/07 Time: 10:36:42 CPU Time: 0 0: 3:45.14 ( 225.14 sec) Binary
2575     Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576     Date: 02/14/07 Time: 10:36:47 CPU Time: 0 0: 3:49.93 ( 229.93 sec) Binary
2578     Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579     Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:55.30 ( 235.30 sec) Binary
2581     Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582     Date: 02/14/07 Time: 10:36:59 CPU Time: 0 0: 4: 2.34 ( 242.34 sec) Binary
2584     Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585     Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 4: 9.68 ( 249.68 sec) Binary
2587     Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588     Date: 02/14/07 Time: 10:37:15 CPU Time: 0 0: 4:17.62 ( 257.62 sec) Binary
2590     Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591     Date: 02/14/07 Time: 10:37:22 CPU Time: 0 0: 4:24.65 ( 264.65 sec) Binary
2593     Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594     Date: 02/14/07 Time: 10:37:27 CPU Time: 0 0: 4:29.32 ( 269.32 sec) Binary
2596     Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597     Date: 02/14/07 Time: 10:37:34 CPU Time: 0 0: 4:36.58 ( 276.58 sec) Binary
2599     Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600     Date: 02/14/07 Time: 10:37:42 CPU Time: 0 0: 4:44.46 ( 284.46 sec) Binary
2602     Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603     Date: 02/14/07 Time: 10:37:49 CPU Time: 0 0: 4:51.52 ( 291.52 sec) Binary
2605     Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
2606     Date: 02/14/07 Time: 10:37:59 CPU Time: 0 0: 5: 0.88 ( 300.88 sec) Binary
2608     Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
2609     Date: 02/14/07 Time: 10:38:06 CPU Time: 0 0: 5: 7.91 ( 307.91 sec) Binary
2611     Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
2612     Date: 02/14/07 Time: 10:38:18 CPU Time: 0 0: 5:19.84 ( 319.84 sec) Binary
2614     Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
2615     Date: 02/14/07 Time: 10:38:23 CPU Time: 0 0: 5:24.62 ( 324.62 sec) Binary
2617     Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
2618     Date: 02/14/07 Time: 10:38:31 CPU Time: 0 0: 5:32.52 ( 332.52 sec) Binary
2620     Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
2621     Date: 02/14/07 Time: 10:38:38 CPU Time: 0 0: 5:40.06 ( 340.06 sec) Binary
2624     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
2450     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) ASCII
2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453     Date: 02/14/07 Time: 09:39:16 CPU Time: 0 0: 0:21.06 ( 21.06 sec) Binary
2455     Time Step No. = 140 Elapsed Time = 4.346098E-01 days
2456     Date: 02/14/07 Time: 09:39:19 CPU Time: 0 0: 0:23.85 ( 23.85 sec) Binary
2458     Time Step No. = 160 Elapsed Time = 3.472291E+01 days
2459     Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:27.82 ( 27.82 sec) Binary
2461     Time Step No. = 180 Elapsed Time = 1.955883E+03 days
2462     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:33.15 ( 33.15 sec) Binary
2464     Time Step No. = 200 Elapsed Time = 2.565631E+04 days
2465     Date: 02/14/07 Time: 09:39:34 CPU Time: 0 0: 0:39.74 ( 39.74 sec) Binary
2467     Time Step No. = 220 Elapsed Time = 3.652584E+04 days
2468     Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:49.98 ( 49.98 sec) Binary
2470     Time Step No. = 240 Elapsed Time = 3.659319E+04 days
2471     Date: 02/14/07 Time: 09:39:49 CPU Time: 0 0: 0:53.86 ( 53.86 sec) Binary
2473     Time Step No. = 260 Elapsed Time = 3.666452E+04 days
2474     Date: 02/14/07 Time: 09:39:51 CPU Time: 0 0: 0:55.94 ( 55.94 sec) Binary
2476     Time Step No. = 280 Elapsed Time = 3.678636E+04 days
2477     Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:59.36 ( 59.36 sec) Binary
2479     Time Step No. = 300 Elapsed Time = 3.918728E+04 days
2480     Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 1: 4.62 ( 64.62 sec) Binary
2482     Time Step No. = 320 Elapsed Time = 5.812157E+04 days
2483     Date: 02/14/07 Time: 09:40:09 CPU Time: 0 0: 1:13.94 ( 73.94 sec) Binary
2485     Time Step No. = 340 Elapsed Time = 9.710952E+04 days
2486     Date: 02/14/07 Time: 09:40:16 CPU Time: 0 0: 1:20.81 ( 80.81 sec) Binary
2488     Time Step No. = 360 Elapsed Time = 3.570947E+05 days
2489     Date: 02/14/07 Time: 09:40:25 CPU Time: 0 0: 1:29.71 ( 89.71 sec) Binary
2491     Time Step No. = 380 Elapsed Time = 3.652773E+05 days
```

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2492 Date: 02/14/07 Time: 09:40:30 CPU Time: 0 0: 1:35.50 ( 95.50 sec) Binary
2494 Time Step No. = 400 Elapsed Time = 3.654045E+05 days
2495 Date: 02/14/07 Time: 09:40:36 CPU Time: 0 0: 1:41.29 ( 101.29 sec) Binary
2497 Time Step No. = 420 Elapsed Time = 3.660244E+05 days
2498 Date: 02/14/07 Time: 09:40:43 CPU Time: 0 0: 1:48.20 ( 108.20 sec) Binary
2500 Time Step No. = 440 Elapsed Time = 3.667476E+05 days
2501 Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:50.51 ( 110.51 sec) Binary
2503 Time Step No. = 460 Elapsed Time = 3.668694E+05 days
2504 Date: 02/14/07 Time: 09:40:48 CPU Time: 0 0: 1:52.90 ( 112.90 sec) Binary
2506 Time Step No. = 480 Elapsed Time = 3.774372E+05 days
2507 Date: 02/14/07 Time: 09:40:53 CPU Time: 0 0: 1:58.07 ( 118.07 sec) Binary
2509 Time Step No. = 500 Elapsed Time = 3.796809E+05 days
2510 Date: 02/14/07 Time: 09:40:59 CPU Time: 0 0: 2: 4.43 ( 124.43 sec) Binary
2512 Time Step No. = 520 Elapsed Time = 3.859590E+05 days
2513 Date: 02/14/07 Time: 09:41:04 CPU Time: 0 0: 2: 8.84 ( 128.84 sec) Binary
2515 Time Step No. = 540 Elapsed Time = 4.871131E+05 days
2516 Date: 02/14/07 Time: 09:41:13 CPU Time: 0 0: 2:17.71 ( 137.71 sec) Binary
2518 Time Step No. = 560 Elapsed Time = 4.930836E+05 days
2519 Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:23.87 ( 143.87 sec) Binary
2521 Time Step No. = 580 Elapsed Time = 5.535964E+05 days
2522 Date: 02/14/07 Time: 09:41:26 CPU Time: 0 0: 2:30.76 ( 150.76 sec) Binary
2524 Time Step No. = 600 Elapsed Time = 5.724872E+05 days
2525 Date: 02/14/07 Time: 09:41:34 CPU Time: 0 0: 2:39.44 ( 159.44 sec) Binary
2527 Time Step No. = 620 Elapsed Time = 5.734498E+05 days
2528 Date: 02/14/07 Time: 09:41:40 CPU Time: 0 0: 2:44.75 ( 164.75 sec) Binary
2530 Time Step No. = 640 Elapsed Time = 5.775623E+05 days
2531 Date: 02/14/07 Time: 09:41:46 CPU Time: 0 0: 2:50.32 ( 170.32 sec) Binary
2533 Time Step No. = 660 Elapsed Time = 6.407566E+05 days
2534 Date: 02/14/07 Time: 09:41:53 CPU Time: 0 0: 2:57.55 ( 177.55 sec) Binary
2536 Time Step No. = 680 Elapsed Time = 6.744634E+05 days
2537 Date: 02/14/07 Time: 09:42:02 CPU Time: 0 0: 3: 6.29 ( 186.29 sec) Binary
2539 Time Step No. = 700 Elapsed Time = 6.751089E+05 days
2540 Date: 02/14/07 Time: 09:42:05 CPU Time: 0 0: 3: 9.80 ( 189.80 sec) Binary
2542 Time Step No. = 720 Elapsed Time = 6.764870E+05 days
2543 Date: 02/14/07 Time: 09:42:14 CPU Time: 0 0: 3:18.46 ( 198.46 sec) Binary
2545 Time Step No. = 740 Elapsed Time = 6.800027E+05 days
2546 Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:23.52 ( 203.52 sec) Binary
2548 Time Step No. = 760 Elapsed Time = 6.830843E+05 days
2549 Date: 02/14/07 Time: 09:42:23 CPU Time: 0 0: 3:27.71 ( 207.71 sec) Binary
2551 Time Step No. = 780 Elapsed Time = 7.863709E+05 days
2552 Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:34.43 ( 214.43 sec) Binary
2554 Time Step No. = 800 Elapsed Time = 8.205738E+05 days
2555 Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:40.39 ( 220.39 sec) Binary
2557 Time Step No. = 820 Elapsed Time = 8.371328E+05 days
2558 Date: 02/14/07 Time: 09:42:43 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
2560 Time Step No. = 840 Elapsed Time = 9.542887E+05 days
2561 Date: 02/14/07 Time: 09:42:51 CPU Time: 0 0: 3:55.91 ( 235.91 sec) Binary
2563 Time Step No. = 860 Elapsed Time = 9.666332E+05 days
2564 Date: 02/14/07 Time: 09:42:58 CPU Time: 0 0: 4: 2.50 ( 242.50 sec) Binary
2566 Time Step No. = 880 Elapsed Time = 9.777098E+05 days
2567 Date: 02/14/07 Time: 09:43:03 CPU Time: 0 0: 4: 7.38 ( 247.38 sec) Binary
2569 Time Step No. = 900 Elapsed Time = 1.062787E+06 days
2570 Date: 02/14/07 Time: 09:43:10 CPU Time: 0 0: 4:15.04 ( 255.04 sec) Binary
2572 Time Step No. = 920 Elapsed Time = 1.075840E+06 days
2573 Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:22.63 ( 262.63 sec) Binary
2575 Time Step No. = 940 Elapsed Time = 1.078336E+06 days
2576 Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:28.19 ( 268.19 sec) Binary
2578 Time Step No. = 960 Elapsed Time = 1.145474E+06 days
2579 Date: 02/14/07 Time: 09:43:30 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
2581 Time Step No. = 980 Elapsed Time = 1.476967E+06 days
2582 Date: 02/14/07 Time: 09:43:38 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
2584 Time Step No. = 1000 Elapsed Time = 1.647571E+06 days
2585 Date: 02/14/07 Time: 09:43:47 CPU Time: 0 0: 4:51.06 ( 291.06 sec) Binary
2587 Time Step No. = 1020 Elapsed Time = 1.741394E+06 days
2588 Date: 02/14/07 Time: 09:43:56 CPU Time: 0 0: 5: 0.29 ( 300.29 sec) Binary
2590 Time Step No. = 1040 Elapsed Time = 1.760200E+06 days
2591 Date: 02/14/07 Time: 09:44:04 CPU Time: 0 0: 5: 8.46 ( 308.46 sec) Binary
2593 Time Step No. = 1060 Elapsed Time = 1.854061E+06 days
2594 Date: 02/14/07 Time: 09:44:09 CPU Time: 0 0: 5:13.90 ( 313.90 sec) Binary
2596 Time Step No. = 1080 Elapsed Time = 2.147313E+06 days
2597 Date: 02/14/07 Time: 09:44:18 CPU Time: 0 0: 5:22.32 ( 322.32 sec) Binary
2599 Time Step No. = 1100 Elapsed Time = 2.431481E+06 days
2600 Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:31.82 ( 331.82 sec) Binary
2602 Time Step No. = 1120 Elapsed Time = 2.490074E+06 days
2603 Date: 02/14/07 Time: 09:44:36 CPU Time: 0 0: 5:40.41 ( 340.41 sec) Binary
2605 Time Step No. = 1140 Elapsed Time = 2.690910E+06 days
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 2606     Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:51.68 ( 351.68 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.089099E+06 days
 2609     Date: 02/14/07 Time: 09:44:56 CPU Time: 0 0: 6: 0.22 ( 360.22 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 3.293784E+06 days
 2612     Date: 02/14/07 Time: 09:45:10 CPU Time: 0 0: 6:14.52 ( 374.52 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 3.347981E+06 days
 2615     Date: 02/14/07 Time: 09:45:16 CPU Time: 0 0: 6:20.25 ( 380.25 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 3.418348E+06 days
 2618     Date: 02/14/07 Time: 09:45:25 CPU Time: 0 0: 6:29.47 ( 389.47 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 3.499859E+06 days
 2621     Date: 02/14/07 Time: 09:45:34 CPU Time: 0 0: 6:38.23 ( 398.23 sec) Binary
 2624     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
 2640     CPU Time (this time step) = 0.29 sec = 0.00008 hr
 2641     CPU Time (total for run) = 343.52 sec = 0.09542 hr
 2642    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 2640     CPU Time (this time step) = 0.34 sec = 0.00009 hr
 2641     CPU Time (total for run) = 402.27 sec = 0.11174 hr
 2642    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1
 3318     Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:43.53 ( 343.53 sec) ASCII
 3320     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3321     Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 5:43.54 ( 343.54 sec) Binary
 3326    ******************************************************************************
 3327     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3328     * Completed: 02/14/07 at 10:38:42 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3329    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
 3318     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) ASCII
 3320     Time Step No. = 1254 Elapsed Time = 3.652431E+06 days
 3321     Date: 02/14/07 Time: 09:45:38 CPU Time: 0 0: 6:42.29 ( 402.29 sec) Binary
 3326    ******************************************************************************
 3327     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3328     * Completed: 02/14/07 at 09:45:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3329    ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 132

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES45_TEST7_V002.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V002]BF2_QB0600_ES47_TEST7_V002.OUT;1
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BF2_QB0600_ES45_TEST7_V003_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
    3     ** Begun on: 02/14/07 at 10:33:00 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
    3     ** Begun on: 02/14/07 at 09:38:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
   62    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_TEST7_V003.INP;2
   62    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
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   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 19.48 sec = 0.00541 hr
 1774    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.62 sec = 0.00656 hr
 1774    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
 2450     Date: 02/14/07 Time: 10:33:20 CPU Time: 0 0: 0:19.50 ( 19.50 sec) ASCII
 2452     Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:33:20 CPU Time: 0 0: 0:19.50 ( 19.50 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.290116E-01 days
 2456     Date: 02/14/07 Time: 10:33:21 CPU Time: 0 0: 0:21.18 ( 21.18 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 7.082940E+00 days
 2459     Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:23.79 ( 23.79 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 2.340221E+02 days
 2462     Date: 02/14/07 Time: 10:33:27 CPU Time: 0 0: 0:27.15 ( 27.15 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.227802E+03 days
 2465     Date: 02/14/07 Time: 10:33:31 CPU Time: 0 0: 0:31.17 ( 31.17 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.172601E+04 days
 2468     Date: 02/14/07 Time: 10:33:38 CPU Time: 0 0: 0:37.54 ( 37.54 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 10:33:49 CPU Time: 0 0: 0:48.60 ( 48.60 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2474     Date: 02/14/07 Time: 10:33:51 CPU Time: 0 0: 0:51.04 ( 51.04 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652436E+04 days
 2477     Date: 02/14/07 Time: 10:33:54 CPU Time: 0 0: 0:53.88 ( 53.88 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.652878E+04 days
```

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2480   Date: 02/14/07 Time: 10:33:57 CPU Time: 0 0: 0:56.77 ( 56.77 sec) Binary
2482   Time Step No. = 320 Elapsed Time = 3.664309E+04 days
2483   Date: 02/14/07 Time: 10:34:01 CPU Time: 0 0: 1: 1.27 ( 61.27 sec) Binary
2485   Time Step No. = 340 Elapsed Time = 3.666734E+04 days
2486   Date: 02/14/07 Time: 10:34:03 CPU Time: 0 0: 1: 2.76 ( 62.76 sec) Binary
2488   Time Step No. = 360 Elapsed Time = 3.683266E+04 days
2489   Date: 02/14/07 Time: 10:34:06 CPU Time: 0 0: 1: 6.01 ( 66.01 sec) Binary
2491   Time Step No. = 380 Elapsed Time = 4.360968E+04 days
2492   Date: 02/14/07 Time: 10:34:10 CPU Time: 0 0: 1: 9.70 ( 69.70 sec) Binary
2494   Time Step No. = 400 Elapsed Time = 1.385826E+05 days
2495   Date: 02/14/07 Time: 10:34:18 CPU Time: 0 0: 1:17.68 ( 77.68 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 1.471271E+05 days
2498   Date: 02/14/07 Time: 10:34:26 CPU Time: 0 0: 1:26.18 ( 86.18 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 1.527317E+05 days
2501   Date: 02/14/07 Time: 10:34:32 CPU Time: 0 0: 1:31.76 ( 91.76 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 1.710125E+05 days
2504   Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 1:38.71 ( 98.71 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 2.573034E+05 days
2507   Date: 02/14/07 Time: 10:34:48 CPU Time: 0 0: 1:47.58 ( 107.58 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 2.971722E+05 days
2510   Date: 02/14/07 Time: 10:34:56 CPU Time: 0 0: 1:55.77 ( 115.77 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 3.652468E+05 days
2513   Date: 02/14/07 Time: 10:35:01 CPU Time: 0 0: 2: 0.79 ( 120.79 sec) Binary
2515   Time Step No. = 540 Elapsed Time = 3.653773E+05 days
2516   Date: 02/14/07 Time: 10:35:06 CPU Time: 0 0: 2: 5.62 ( 125.62 sec) Binary
2518   Time Step No. = 560 Elapsed Time = 3.659289E+05 days
2519   Date: 02/14/07 Time: 10:35:13 CPU Time: 0 0: 2:12.06 ( 132.06 sec) Binary
2521   Time Step No. = 580 Elapsed Time = 3.665472E+05 days
2522   Date: 02/14/07 Time: 10:35:15 CPU Time: 0 0: 2:14.11 ( 134.11 sec) Binary
2524   Time Step No. = 600 Elapsed Time = 3.666447E+05 days
2525   Date: 02/14/07 Time: 10:35:17 CPU Time: 0 0: 2:15.70 ( 135.70 sec) Binary
2527   Time Step No. = 620 Elapsed Time = 3.703658E+05 days
2528   Date: 02/14/07 Time: 10:35:22 CPU Time: 0 0: 2:20.62 ( 140.62 sec) Binary
2530   Time Step No. = 640 Elapsed Time = 3.798337E+05 days
2531   Date: 02/14/07 Time: 10:35:30 CPU Time: 0 0: 2:29.19 ( 149.19 sec) Binary
2533   Time Step No. = 660 Elapsed Time = 3.939257E+05 days
2534   Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 2:35.96 ( 155.96 sec) Binary
2536   Time Step No. = 680 Elapsed Time = 3.962038E+05 days
2537   Date: 02/14/07 Time: 10:35:43 CPU Time: 0 0: 2:42.04 ( 162.04 sec) Binary
2539   Time Step No. = 700 Elapsed Time = 4.052779E+05 days
2540   Date: 02/14/07 Time: 10:35:48 CPU Time: 0 0: 2:46.54 ( 166.54 sec) Binary
2542   Time Step No. = 720 Elapsed Time = 4.063093E+05 days
2543   Date: 02/14/07 Time: 10:35:53 CPU Time: 0 0: 2:52.41 ( 172.41 sec) Binary
2545   Time Step No. = 740 Elapsed Time = 4.122326E+05 days
2546   Date: 02/14/07 Time: 10:36:00 CPU Time: 0 0: 2:58.96 ( 178.96 sec) Binary
2548   Time Step No. = 760 Elapsed Time = 4.197205E+05 days
2549   Date: 02/14/07 Time: 10:36:05 CPU Time: 0 0: 3: 3.85 ( 183.85 sec) Binary
2551   Time Step No. = 780 Elapsed Time = 4.477240E+05 days
2552   Date: 02/14/07 Time: 10:36:12 CPU Time: 0 0: 3:10.63 ( 190.63 sec) Binary
2554   Time Step No. = 800 Elapsed Time = 5.300302E+05 days
2555   Date: 02/14/07 Time: 10:36:19 CPU Time: 0 0: 3:17.97 ( 197.97 sec) Binary
2557   Time Step No. = 820 Elapsed Time = 6.962797E+05 days
2558   Date: 02/14/07 Time: 10:36:26 CPU Time: 0 0: 3:25.37 ( 205.37 sec) Binary
2560   Time Step No. = 840 Elapsed Time = 6.976745E+05 days
2561   Date: 02/14/07 Time: 10:36:32 CPU Time: 0 0: 3:30.32 ( 210.32 sec) Binary
2563   Time Step No. = 860 Elapsed Time = 7.510302E+05 days
2564   Date: 02/14/07 Time: 10:36:38 CPU Time: 0 0: 3:36.33 ( 216.33 sec) Binary
2566   Time Step No. = 880 Elapsed Time = 1.039742E+06 days
2567   Date: 02/14/07 Time: 10:36:44 CPU Time: 0 0: 3:42.76 ( 222.76 sec) Binary
2569   Time Step No. = 900 Elapsed Time = 1.429742E+06 days
2570   Date: 02/14/07 Time: 10:36:50 CPU Time: 0 0: 3:48.52 ( 228.52 sec) Binary
2572   Time Step No. = 920 Elapsed Time = 1.739749E+06 days
2573   Date: 02/14/07 Time: 10:36:57 CPU Time: 0 0: 3:55.76 ( 235.76 sec) Binary
2575   Time Step No. = 940 Elapsed Time = 2.139749E+06 days
2576   Date: 02/14/07 Time: 10:37:02 CPU Time: 0 0: 4: 0.49 ( 240.49 sec) Binary
2578   Time Step No. = 960 Elapsed Time = 2.507874E+06 days
2579   Date: 02/14/07 Time: 10:37:08 CPU Time: 0 0: 4: 6.25 ( 246.25 sec) Binary
2581   Time Step No. = 980 Elapsed Time = 2.775406E+06 days
2582   Date: 02/14/07 Time: 10:37:13 CPU Time: 0 0: 4:11.68 ( 251.68 sec) Binary
2584   Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
2585   Date: 02/14/07 Time: 10:37:18 CPU Time: 0 0: 4:16.63 ( 256.63 sec) Binary
2587   Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
2588   Date: 02/14/07 Time: 10:37:26 CPU Time: 0 0: 4:24.05 ( 264.05 sec) Binary
2590   Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
2591   Date: 02/14/07 Time: 10:37:32 CPU Time: 0 0: 4:30.39 ( 270.39 sec) Binary
2594   Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 2450    Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) ASCII
 2452    Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 09:39:23 CPU Time: 0 0: 0:23.63 ( 23.63 sec) Binary
 2455    Time Step No. = 140 Elapsed Time = 1.290116E-01 days
 2456    Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:25.67 ( 25.67 sec) Binary
 2458    Time Step No. = 160 Elapsed Time = 7.082940E+00 days
 2459    Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:28.88 ( 28.88 sec) Binary
 2461    Time Step No. = 180 Elapsed Time = 2.340221E+02 days
 2462    Date: 02/14/07 Time: 09:39:33 CPU Time: 0 0: 0:33.00 ( 33.00 sec) Binary
 2464    Time Step No. = 200 Elapsed Time = 2.227802E+03 days
 2465    Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:37.92 ( 37.92 sec) Binary
 2467    Time Step No. = 220 Elapsed Time = 2.172601E+04 days
 2468    Date: 02/14/07 Time: 09:39:45 CPU Time: 0 0: 0:45.69 ( 45.69 sec) Binary
 2470    Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471    Date: 02/14/07 Time: 09:39:59 CPU Time: 0 0: 0:59.17 ( 59.17 sec) Binary
 2473    Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2474    Date: 02/14/07 Time: 09:40:02 CPU Time: 0 0: 1: 2.14 ( 62.14 sec) Binary
 2476    Time Step No. = 280 Elapsed Time = 3.652436E+04 days
 2477    Date: 02/14/07 Time: 09:40:05 CPU Time: 0 0: 1: 5.32 ( 65.32 sec) Binary
 2479    Time Step No. = 300 Elapsed Time = 3.652878E+04 days
 2480    Date: 02/14/07 Time: 09:40:08 CPU Time: 0 0: 1: 8.54 ( 68.54 sec) Binary
 2482    Time Step No. = 320 Elapsed Time = 3.664309E+04 days
 2483    Date: 02/14/07 Time: 09:40:13 CPU Time: 0 0: 1:13.49 ( 73.49 sec) Binary
 2485    Time Step No. = 340 Elapsed Time = 3.666734E+04 days
 2486    Date: 02/14/07 Time: 09:40:15 CPU Time: 0 0: 1:15.14 ( 75.14 sec) Binary
 2488    Time Step No. = 360 Elapsed Time = 3.683266E+04 days
 2489    Date: 02/14/07 Time: 09:40:18 CPU Time: 0 0: 1:18.69 ( 78.69 sec) Binary
 2491    Time Step No. = 380 Elapsed Time = 4.360968E+04 days
 2492    Date: 02/14/07 Time: 09:40:23 CPU Time: 0 0: 1:23.08 ( 83.08 sec) Binary
 2494    Time Step No. = 400 Elapsed Time = 1.385826E+05 days
 2495    Date: 02/14/07 Time: 09:40:32 CPU Time: 0 0: 1:32.44 ( 92.44 sec) Binary
 2497    Time Step No. = 420 Elapsed Time = 1.471271E+05 days
 2498    Date: 02/14/07 Time: 09:40:42 CPU Time: 0 0: 1:42.55 ( 102.55 sec) Binary
 2500    Time Step No. = 440 Elapsed Time = 1.527317E+05 days
 2501    Date: 02/14/07 Time: 09:40:49 CPU Time: 0 0: 1:49.23 ( 109.23 sec) Binary
 2503    Time Step No. = 460 Elapsed Time = 1.710125E+05 days
 2504    Date: 02/14/07 Time: 09:40:57 CPU Time: 0 0: 1:57.52 ( 117.52 sec) Binary
 2506    Time Step No. = 480 Elapsed Time = 2.573034E+05 days
 2507    Date: 02/14/07 Time: 09:41:08 CPU Time: 0 0: 2: 8.15 ( 128.15 sec) Binary
 2509    Time Step No. = 500 Elapsed Time = 2.971722E+05 days
 2510    Date: 02/14/07 Time: 09:41:18 CPU Time: 0 0: 2:18.14 ( 138.14 sec) Binary
 2512    Time Step No. = 520 Elapsed Time = 3.652468E+05 days
 2513    Date: 02/14/07 Time: 09:41:24 CPU Time: 0 0: 2:24.26 ( 144.26 sec) Binary
 2515    Time Step No. = 540 Elapsed Time = 3.653773E+05 days
 2516    Date: 02/14/07 Time: 09:41:30 CPU Time: 0 0: 2:30.18 ( 150.18 sec) Binary
 2518    Time Step No. = 560 Elapsed Time = 3.659289E+05 days
 2519    Date: 02/14/07 Time: 09:41:38 CPU Time: 0 0: 2:38.04 ( 158.04 sec) Binary
 2521    Time Step No. = 580 Elapsed Time = 3.665472E+05 days
 2522    Date: 02/14/07 Time: 09:41:41 CPU Time: 0 0: 2:40.56 ( 160.56 sec) Binary
 2524    Time Step No. = 600 Elapsed Time = 3.666447E+05 days
 2525    Date: 02/14/07 Time: 09:41:43 CPU Time: 0 0: 2:42.53 ( 162.53 sec) Binary
 2527    Time Step No. = 620 Elapsed Time = 3.703658E+05 days
 2528    Date: 02/14/07 Time: 09:41:49 CPU Time: 0 0: 2:48.51 ( 168.51 sec) Binary
 2530    Time Step No. = 640 Elapsed Time = 3.798337E+05 days
 2531    Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:58.94 ( 178.94 sec) Binary
 2533    Time Step No. = 660 Elapsed Time = 3.939257E+05 days
 2534    Date: 02/14/07 Time: 09:42:08 CPU Time: 0 0: 3: 7.22 ( 187.22 sec) Binary
 2536    Time Step No. = 680 Elapsed Time = 3.962038E+05 days
 2537    Date: 02/14/07 Time: 09:42:15 CPU Time: 0 0: 3:14.65 ( 194.65 sec) Binary
 2539    Time Step No. = 700 Elapsed Time = 4.052779E+05 days
 2540    Date: 02/14/07 Time: 09:42:21 CPU Time: 0 0: 3:20.17 ( 200.17 sec) Binary
 2542    Time Step No. = 720 Elapsed Time = 4.063093E+05 days
 2543    Date: 02/14/07 Time: 09:42:28 CPU Time: 0 0: 3:27.30 ( 207.30 sec) Binary
 2545    Time Step No. = 740 Elapsed Time = 4.122326E+05 days
 2546    Date: 02/14/07 Time: 09:42:36 CPU Time: 0 0: 3:35.27 ( 215.27 sec) Binary
 2548    Time Step No. = 760 Elapsed Time = 4.197205E+05 days
 2549    Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:41.21 ( 221.21 sec) Binary
 2551    Time Step No. = 780 Elapsed Time = 4.477240E+05 days
 2552    Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:49.50 ( 229.50 sec) Binary
 2554    Time Step No. = 800 Elapsed Time = 5.300302E+05 days
 2555    Date: 02/14/07 Time: 09:42:59 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
 2557    Time Step No. = 820 Elapsed Time = 6.962797E+05 days
 2558    Date: 02/14/07 Time: 09:43:08 CPU Time: 0 0: 4: 7.46 ( 247.46 sec) Binary
 2560    Time Step No. = 840 Elapsed Time = 6.976745E+05 days
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 2561    Date: 02/14/07 Time: 09:43:14 CPU Time: 0 0: 4:13.51 ( 253.51 sec) Binary
 2563    Time Step No. = 860 Elapsed Time = 7.510302E+05 days
 2564    Date: 02/14/07 Time: 09:43:22 CPU Time: 0 0: 4:20.80 ( 260.80 sec) Binary
 2566    Time Step No. = 880 Elapsed Time = 1.039742E+06 days
 2567    Date: 02/14/07 Time: 09:43:29 CPU Time: 0 0: 4:28.62 ( 268.62 sec) Binary
 2569    Time Step No. = 900 Elapsed Time = 1.429742E+06 days
 2570    Date: 02/14/07 Time: 09:43:36 CPU Time: 0 0: 4:35.61 ( 275.61 sec) Binary
 2572    Time Step No. = 920 Elapsed Time = 1.739749E+06 days
 2573    Date: 02/14/07 Time: 09:43:45 CPU Time: 0 0: 4:44.43 ( 284.43 sec) Binary
 2575    Time Step No. = 940 Elapsed Time = 2.139749E+06 days
 2576    Date: 02/14/07 Time: 09:43:51 CPU Time: 0 0: 4:50.23 ( 290.23 sec) Binary
 2578    Time Step No. = 960 Elapsed Time = 2.507874E+06 days
 2579    Date: 02/14/07 Time: 09:43:58 CPU Time: 0 0: 4:57.30 ( 297.30 sec) Binary
 2581    Time Step No. = 980 Elapsed Time = 2.775406E+06 days
 2582    Date: 02/14/07 Time: 09:44:05 CPU Time: 0 0: 5: 3.90 ( 303.90 sec) Binary
 2584    Time Step No. = 1000 Elapsed Time = 3.175406E+06 days
 2585    Date: 02/14/07 Time: 09:44:11 CPU Time: 0 0: 5: 9.97 ( 309.97 sec) Binary
 2587    Time Step No. = 1020 Elapsed Time = 3.365099E+06 days
 2588    Date: 02/14/07 Time: 09:44:20 CPU Time: 0 0: 5:19.00 ( 319.00 sec) Binary
 2590    Time Step No. = 1040 Elapsed Time = 3.632948E+06 days
 2591    Date: 02/14/07 Time: 09:44:27 CPU Time: 0 0: 5:26.37 ( 326.37 sec) Binary
 2594    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
 2610    CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2611    CPU Time (total for run) = 270.80 sec = 0.07522 hr
 2612    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 2610    CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2611    CPU Time (total for run) = 326.84 sec = 0.09079 hr
 2612    ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1
 3288    Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:30.80 ( 270.80 sec) ASCII
 3290    Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3291    Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:30.80 ( 270.80 sec) Binary
 3296    ********************************************************************************
 3297    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3298    * Completed: 02/14/07 at 10:37:33 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3299    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
 3288    Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) ASCII
 3290    Time Step No. = 1042 Elapsed Time = 3.652431E+06 days
 3291    Date: 02/14/07 Time: 09:44:28 CPU Time: 0 0: 5:26.85 ( 326.85 sec) Binary
 3296    ********************************************************************************
 3297    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3298    * Completed: 02/14/07 at 09:44:28 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3299    ********************************************************************************
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Number of difference sections found: 11
Number of difference records found: 112

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES45_TEST7_V003.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V003]BF2_QB0600_ES47_TEST7_V003.OUT;1
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BF2_QB0600_ES45_TEST7_V004_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
    3    ** Begun on: 02/14/07 at 10:33:05 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
    3    ** Begun on: 02/14/07 at 09:39:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
   62      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_TEST7_V004.INP;2
   62      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   72      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
 1772      CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773      CPU Time (total for run) = 18.62 sec = 0.00517 hr
 1774      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 1772      CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773      CPU Time (total for run) = 20.44 sec = 0.00568 hr
 1774      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
 2450      Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:18.64 ( 18.64 sec) ASCII
 2452      Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:33:24 CPU Time: 0 0: 0:18.64 ( 18.64 sec) Binary
 2455      Time Step No. = 140 Elapsed Time = 4.883945E-01 days
 2456      Date: 02/14/07 Time: 10:33:26 CPU Time: 0 0: 0:21.23 ( 21.23 sec) Binary
 2458      Time Step No. = 160 Elapsed Time = 4.387923E+01 days
 2459      Date: 02/14/07 Time: 10:33:30 CPU Time: 0 0: 0:24.58 ( 24.58 sec) Binary
 2461      Time Step No. = 180 Elapsed Time = 1.702937E+03 days
 2462      Date: 02/14/07 Time: 10:33:34 CPU Time: 0 0: 0:29.04 ( 29.04 sec) Binary
 2464      Time Step No. = 200 Elapsed Time = 2.885022E+04 days
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2465    Date: 02/14/07 Time: 10:33:39 CPU Time: 0 0: 0:34.05 ( 34.05 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 3.655949E+04 days
2468    Date: 02/14/07 Time: 10:33:44 CPU Time: 0 0: 0:38.54 ( 38.54 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.665992E+04 days
2471    Date: 02/14/07 Time: 10:33:47 CPU Time: 0 0: 0:42.09 ( 42.09 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.668547E+04 days
2474    Date: 02/14/07 Time: 10:33:49 CPU Time: 0 0: 0:44.10 ( 44.10 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.890170E+04 days
2477    Date: 02/14/07 Time: 10:33:53 CPU Time: 0 0: 0:47.89 ( 47.89 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 7.425091E+04 days
2480    Date: 02/14/07 Time: 10:34:00 CPU Time: 0 0: 0:54.55 ( 54.55 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 7.693372E+04 days
2483    Date: 02/14/07 Time: 10:34:09 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 7.782328E+04 days
2486    Date: 02/14/07 Time: 10:34:12 CPU Time: 0 0: 1: 6.91 ( 66.91 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 8.389603E+04 days
2489    Date: 02/14/07 Time: 10:34:18 CPU Time: 0 0: 1:12.68 ( 72.68 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 1.126327E+05 days
2492    Date: 02/14/07 Time: 10:34:25 CPU Time: 0 0: 1:19.80 ( 79.80 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.247590E+05 days
2495    Date: 02/14/07 Time: 10:34:34 CPU Time: 0 0: 1:28.72 ( 88.72 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.251232E+05 days
2498    Date: 02/14/07 Time: 10:34:39 CPU Time: 0 0: 1:33.57 ( 93.57 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.256932E+05 days
2501    Date: 02/14/07 Time: 10:34:42 CPU Time: 0 0: 1:37.15 ( 97.15 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.297175E+05 days
2504    Date: 02/14/07 Time: 10:34:49 CPU Time: 0 0: 1:43.53 ( 103.53 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 1.536827E+05 days
2507    Date: 02/14/07 Time: 10:34:57 CPU Time: 0 0: 1:51.61 ( 111.61 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 1.675465E+05 days
2510    Date: 02/14/07 Time: 10:35:03 CPU Time: 0 0: 1:57.51 ( 117.51 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 1.683237E+05 days
2513    Date: 02/14/07 Time: 10:35:10 CPU Time: 0 0: 2: 4.99 ( 124.99 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 1.684494E+05 days
2516    Date: 02/14/07 Time: 10:35:14 CPU Time: 0 0: 2: 8.62 ( 128.62 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 1.714114E+05 days
2519    Date: 02/14/07 Time: 10:35:18 CPU Time: 0 0: 2:12.90 ( 132.90 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 2.172821E+05 days
2522    Date: 02/14/07 Time: 10:35:25 CPU Time: 0 0: 2:19.31 ( 139.31 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 2.418381E+05 days
2525    Date: 02/14/07 Time: 10:35:31 CPU Time: 0 0: 2:25.31 ( 145.31 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 2.946886E+05 days
2528    Date: 02/14/07 Time: 10:35:37 CPU Time: 0 0: 2:32.06 ( 152.06 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.455559E+05 days
2531    Date: 02/14/07 Time: 10:35:46 CPU Time: 0 0: 2:40.62 ( 160.62 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.475921E+05 days
2534    Date: 02/14/07 Time: 10:35:49 CPU Time: 0 0: 2:43.68 ( 163.68 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.652432E+05 days
2537    Date: 02/14/07 Time: 10:35:55 CPU Time: 0 0: 2:49.45 ( 169.45 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.652449E+05 days
2540    Date: 02/14/07 Time: 10:35:57 CPU Time: 0 0: 2:51.92 ( 171.92 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.653298E+05 days
2543    Date: 02/14/07 Time: 10:36:00 CPU Time: 0 0: 2:55.07 ( 175.07 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.665963E+05 days
2546    Date: 02/14/07 Time: 10:36:05 CPU Time: 0 0: 2:59.17 ( 179.17 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.666047E+05 days
2549    Date: 02/14/07 Time: 10:36:06 CPU Time: 0 0: 3: 0.71 ( 180.71 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.673309E+05 days
2552    Date: 02/14/07 Time: 10:36:09 CPU Time: 0 0: 3: 3.52 ( 183.52 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.829760E+05 days
2555    Date: 02/14/07 Time: 10:36:15 CPU Time: 0 0: 3: 9.46 ( 189.46 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.527294E+05 days
2558    Date: 02/14/07 Time: 10:36:22 CPU Time: 0 0: 3:16.68 ( 196.68 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 5.448080E+05 days
2561    Date: 02/14/07 Time: 10:36:28 CPU Time: 0 0: 3:22.73 ( 202.73 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.104959E+05 days
2564    Date: 02/14/07 Time: 10:36:35 CPU Time: 0 0: 3:29.13 ( 209.13 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 7.696672E+05 days
2567    Date: 02/14/07 Time: 10:36:41 CPU Time: 0 0: 3:35.03 ( 215.03 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.049399E+06 days
2570    Date: 02/14/07 Time: 10:36:46 CPU Time: 0 0: 3:40.80 ( 220.80 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.449399E+06 days
2573    Date: 02/14/07 Time: 10:36:52 CPU Time: 0 0: 3:46.63 ( 226.63 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.476205E+06 days
2576    Date: 02/14/07 Time: 10:37:01 CPU Time: 0 0: 3:55.21 ( 235.21 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.728036E+06 days
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 2579     Date: 02/14/07 Time: 10:37:07 CPU Time: 0 0: 4: 0.75 ( 240.75 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.780697E+06 days
 2582     Date: 02/14/07 Time: 10:37:13 CPU Time: 0 0: 4: 6.86 ( 246.86 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
 2585     Date: 02/14/07 Time: 10:37:21 CPU Time: 0 0: 4:14.65 ( 254.65 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
 2588     Date: 02/14/07 Time: 10:37:26 CPU Time: 0 0: 4:20.42 ( 260.42 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
 2591     Date: 02/14/07 Time: 10:37:33 CPU Time: 0 0: 4:26.65 ( 266.65 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
 2594     Date: 02/14/07 Time: 10:37:39 CPU Time: 0 0: 4:32.59 ( 272.59 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
 2597     Date: 02/14/07 Time: 10:37:46 CPU Time: 0 0: 4:39.59 ( 279.59 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
 2600     Date: 02/14/07 Time: 10:37:55 CPU Time: 0 0: 4:49.27 ( 289.27 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
 2603     Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 4:54.71 ( 294.71 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
 2606     Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 5: 1.84 ( 301.84 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
 2609     Date: 02/14/07 Time: 10:38:12 CPU Time: 0 0: 5: 6.13 ( 306.13 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 2450     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:39:25 CPU Time: 0 0: 0:20.46 ( 20.46 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.883945E-01 days
 2456     Date: 02/14/07 Time: 09:39:28 CPU Time: 0 0: 0:23.30 ( 23.30 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.387923E+01 days
 2459     Date: 02/14/07 Time: 09:39:32 CPU Time: 0 0: 0:26.98 ( 26.98 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.702937E+03 days
 2462     Date: 02/14/07 Time: 09:39:37 CPU Time: 0 0: 0:32.01 ( 32.01 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.885022E+04 days
 2465     Date: 02/14/07 Time: 09:39:42 CPU Time: 0 0: 0:37.91 ( 37.91 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.655949E+04 days
 2468     Date: 02/14/07 Time: 09:39:48 CPU Time: 0 0: 0:43.22 ( 43.22 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.665992E+04 days
 2471     Date: 02/14/07 Time: 09:39:52 CPU Time: 0 0: 0:47.32 ( 47.32 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.668547E+04 days
 2474     Date: 02/14/07 Time: 09:39:54 CPU Time: 0 0: 0:49.54 ( 49.54 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.890170E+04 days
 2477     Date: 02/14/07 Time: 09:39:58 CPU Time: 0 0: 0:53.73 ( 53.73 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.425091E+04 days
 2480     Date: 02/14/07 Time: 09:40:06 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 7.693372E+04 days
 2483     Date: 02/14/07 Time: 09:40:17 CPU Time: 0 0: 1:11.97 ( 71.97 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 7.782328E+04 days
 2486     Date: 02/14/07 Time: 09:40:20 CPU Time: 0 0: 1:15.67 ( 75.67 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 8.389603E+04 days
 2489     Date: 02/14/07 Time: 09:40:27 CPU Time: 0 0: 1:22.09 ( 82.09 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.126327E+05 days
 2492     Date: 02/14/07 Time: 09:40:35 CPU Time: 0 0: 1:30.02 ( 90.02 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.247590E+05 days
 2495     Date: 02/14/07 Time: 09:40:45 CPU Time: 0 0: 1:40.18 ( 100.18 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.251232E+05 days
 2498     Date: 02/14/07 Time: 09:40:51 CPU Time: 0 0: 1:45.73 ( 105.73 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 1.256932E+05 days
 2501     Date: 02/14/07 Time: 09:40:55 CPU Time: 0 0: 1:49.83 ( 109.83 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 1.297175E+05 days
 2504     Date: 02/14/07 Time: 09:41:02 CPU Time: 0 0: 1:57.23 ( 117.23 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 1.536827E+05 days
 2507     Date: 02/14/07 Time: 09:41:12 CPU Time: 0 0: 2: 6.75 ( 126.75 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 1.675465E+05 days
 2510     Date: 02/14/07 Time: 09:41:19 CPU Time: 0 0: 2:13.69 ( 133.69 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 1.683237E+05 days
 2513     Date: 02/14/07 Time: 09:41:27 CPU Time: 0 0: 2:22.46 ( 142.46 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 1.684494E+05 days
 2516     Date: 02/14/07 Time: 09:41:32 CPU Time: 0 0: 2:26.63 ( 146.63 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 1.714114E+05 days
 2519     Date: 02/14/07 Time: 09:41:36 CPU Time: 0 0: 2:31.45 ( 151.45 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 2.172821E+05 days
 2522     Date: 02/14/07 Time: 09:41:44 CPU Time: 0 0: 2:38.78 ( 158.78 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 2.418381E+05 days
 2525     Date: 02/14/07 Time: 09:41:51 CPU Time: 0 0: 2:45.64 ( 165.64 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 2.946886E+05 days
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 2528     Date: 02/14/07 Time: 09:41:59 CPU Time: 0 0: 2:53.36 ( 173.36 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 3.455559E+05 days
 2531     Date: 02/14/07 Time: 09:42:09 CPU Time: 0 0: 3: 3.15 ( 183.15 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 3.475921E+05 days
 2534     Date: 02/14/07 Time: 09:42:12 CPU Time: 0 0: 3: 6.67 ( 186.67 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 3.652432E+05 days
 2537     Date: 02/14/07 Time: 09:42:19 CPU Time: 0 0: 3:13.28 ( 193.28 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 3.652449E+05 days
 2540     Date: 02/14/07 Time: 09:42:22 CPU Time: 0 0: 3:16.15 ( 196.15 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 3.653298E+05 days
 2543     Date: 02/14/07 Time: 09:42:25 CPU Time: 0 0: 3:19.79 ( 199.79 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.665963E+05 days
 2546     Date: 02/14/07 Time: 09:42:30 CPU Time: 0 0: 3:24.49 ( 204.49 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.666047E+05 days
 2549     Date: 02/14/07 Time: 09:42:32 CPU Time: 0 0: 3:26.28 ( 206.28 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.673309E+05 days
 2552     Date: 02/14/07 Time: 09:42:35 CPU Time: 0 0: 3:29.52 ( 209.52 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.829760E+05 days
 2555     Date: 02/14/07 Time: 09:42:42 CPU Time: 0 0: 3:36.31 ( 216.31 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 4.527294E+05 days
 2558     Date: 02/14/07 Time: 09:42:50 CPU Time: 0 0: 3:44.55 ( 224.55 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 5.448080E+05 days
 2561     Date: 02/14/07 Time: 09:42:57 CPU Time: 0 0: 3:51.49 ( 231.49 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 7.104959E+05 days
 2564     Date: 02/14/07 Time: 09:43:04 CPU Time: 0 0: 3:58.81 ( 238.81 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 7.696672E+05 days
 2567     Date: 02/14/07 Time: 09:43:11 CPU Time: 0 0: 4: 5.53 ( 245.53 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.049399E+06 days
 2570     Date: 02/14/07 Time: 09:43:18 CPU Time: 0 0: 4:12.10 ( 252.10 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.449399E+06 days
 2573     Date: 02/14/07 Time: 09:43:24 CPU Time: 0 0: 4:18.48 ( 258.48 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.476205E+06 days
 2576     Date: 02/14/07 Time: 09:43:33 CPU Time: 0 0: 4:27.88 ( 267.88 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.728036E+06 days
 2579     Date: 02/14/07 Time: 09:43:40 CPU Time: 0 0: 4:33.93 ( 273.93 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.780697E+06 days
 2582     Date: 02/14/07 Time: 09:43:46 CPU Time: 0 0: 4:40.61 ( 280.61 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.892708E+06 days
 2585     Date: 02/14/07 Time: 09:43:55 CPU Time: 0 0: 4:49.13 ( 289.13 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.135160E+06 days
 2588     Date: 02/14/07 Time: 09:44:01 CPU Time: 0 0: 4:55.44 ( 295.44 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 2.460527E+06 days
 2591     Date: 02/14/07 Time: 09:44:08 CPU Time: 0 0: 5: 2.26 ( 302.26 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 2.586092E+06 days
 2594     Date: 02/14/07 Time: 09:44:14 CPU Time: 0 0: 5: 8.69 ( 308.69 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.799611E+06 days
 2597     Date: 02/14/07 Time: 09:44:22 CPU Time: 0 0: 5:16.31 ( 316.31 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 3.059226E+06 days
 2600     Date: 02/14/07 Time: 09:44:32 CPU Time: 0 0: 5:26.84 ( 326.84 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 3.185608E+06 days
 2603     Date: 02/14/07 Time: 09:44:38 CPU Time: 0 0: 5:32.76 ( 332.76 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.288161E+06 days
 2606     Date: 02/14/07 Time: 09:44:47 CPU Time: 0 0: 5:40.87 ( 340.87 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.615101E+06 days
 2609     Date: 02/14/07 Time: 09:44:51 CPU Time: 0 0: 5:45.77 ( 345.77 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
 2628     CPU Time (this time step) = 0.24 sec = 0.00007 hr
 2629     CPU Time (total for run) = 306.60 sec = 0.08517 hr
 2630    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 2628     CPU Time (this time step) = 0.27 sec = 0.00007 hr
 2629     CPU Time (total for run) = 346.30 sec = 0.09619 hr
 2630    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1
 3306     Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5: 6.62 ( 306.62 sec) ASCII
 3308     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 10:38:13 CPU Time: 0 0: 5: 6.62 ( 306.62 sec) Binary
 3314     ********************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 10:38:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
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 3317     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
 3306     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) ASCII
 3308     Time Step No. = 1162 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:44:52 CPU Time: 0 0: 5:46.32 ( 346.32 sec) Binary
 3314     ************************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 09:44:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317     ************************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 124

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES45_TEST7_V004.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V004]BF2_QB0600_ES47_TEST7_V004.OUT;1
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BF2_QB0600_ES45_TEST7_V005_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
    3     ** Begun on: 02/14/07 at 10:37:38 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
    3     ** Begun on: 02/14/07 at 09:44:40 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
   62     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_TEST7_V005.INP;2
   62     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_CLOSURE.DAT;1
   67     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_CLOSURE.DAT;1
   67     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   72     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   72     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.SUM;1
   77     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.SUM;1
   77     ************************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.BIN;1
   82     ************************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.BIN;1
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  82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
  86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.ROT;1
  87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
  86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.ROT;1
  87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
 1772    CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773    CPU Time (total for run) = 22.90 sec = 0.00636 hr
 1774   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 1772    CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773    CPU Time (total for run) = 25.47 sec = 0.00707 hr
 1774   ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
 2450    Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 0:22.92 ( 22.92 sec) ASCII
 2452    Time Step No. = 155 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 10:38:01 CPU Time: 0 0: 0:22.92 ( 22.92 sec) Binary
 2455    Time Step No. = 160 Elapsed Time = 1.602936E-04 days
 2456    Date: 02/14/07 Time: 10:38:03 CPU Time: 0 0: 0:24.46 ( 24.46 sec) Binary
 2458    Time Step No. = 180 Elapsed Time = 2.060139E-02 days
 2459    Date: 02/14/07 Time: 10:38:06 CPU Time: 0 0: 0:27.02 ( 27.02 sec) Binary
 2461    Time Step No. = 200 Elapsed Time = 1.665882E+00 days
 2462    Date: 02/14/07 Time: 10:38:08 CPU Time: 0 0: 0:29.88 ( 29.88 sec) Binary
 2464    Time Step No. = 220 Elapsed Time = 6.830542E+01 days
 2465    Date: 02/14/07 Time: 10:38:12 CPU Time: 0 0: 0:33.03 ( 33.03 sec) Binary
 2467    Time Step No. = 240 Elapsed Time = 9.026859E+02 days
 2468    Date: 02/14/07 Time: 10:38:16 CPU Time: 0 0: 0:37.57 ( 37.57 sec) Binary
 2470    Time Step No. = 260 Elapsed Time = 5.565489E+03 days
 2471    Date: 02/14/07 Time: 10:38:22 CPU Time: 0 0: 0:43.26 ( 43.26 sec) Binary
 2473    Time Step No. = 280 Elapsed Time = 1.541474E+04 days
 2474    Date: 02/14/07 Time: 10:38:30 CPU Time: 0 0: 0:50.99 ( 50.99 sec) Binary
 2476    Time Step No. = 300 Elapsed Time = 2.464433E+04 days
 2477    Date: 02/14/07 Time: 10:38:36 CPU Time: 0 0: 0:57.62 ( 57.62 sec) Binary
 2479    Time Step No. = 320 Elapsed Time = 2.540653E+04 days
 2480    Date: 02/14/07 Time: 10:38:42 CPU Time: 0 0: 1: 3.78 ( 63.78 sec) Binary
 2482    Time Step No. = 340 Elapsed Time = 2.583713E+04 days
 2483    Date: 02/14/07 Time: 10:38:46 CPU Time: 0 0: 1: 6.96 ( 66.96 sec) Binary
 2485    Time Step No. = 360 Elapsed Time = 3.095805E+04 days
 2486    Date: 02/14/07 Time: 10:38:52 CPU Time: 0 0: 1:13.34 ( 73.34 sec) Binary
 2488    Time Step No. = 380 Elapsed Time = 3.652922E+04 days
 2489    Date: 02/14/07 Time: 10:39:00 CPU Time: 0 0: 1:21.58 ( 81.58 sec) Binary
 2491    Time Step No. = 400 Elapsed Time = 3.666828E+04 days
 2492    Date: 02/14/07 Time: 10:39:04 CPU Time: 0 0: 1:25.22 ( 85.22 sec) Binary
 2494    Time Step No. = 420 Elapsed Time = 3.667257E+04 days
 2495    Date: 02/14/07 Time: 10:39:06 CPU Time: 0 0: 1:26.80 ( 86.80 sec) Binary
 2497    Time Step No. = 440 Elapsed Time = 3.689196E+04 days
 2498    Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 1:30.27 ( 90.27 sec) Binary
 2500    Time Step No. = 460 Elapsed Time = 3.751198E+04 days
 2501    Date: 02/14/07 Time: 10:39:14 CPU Time: 0 0: 1:35.21 ( 95.21 sec) Binary
 2503    Time Step No. = 480 Elapsed Time = 3.782453E+04 days
 2504    Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 1:38.28 ( 98.28 sec) Binary
 2506    Time Step No. = 500 Elapsed Time = 4.141513E+04 days
 2507    Date: 02/14/07 Time: 10:39:23 CPU Time: 0 0: 1:44.11 ( 104.11 sec) Binary
 2509    Time Step No. = 520 Elapsed Time = 5.494758E+04 days
 2510    Date: 02/14/07 Time: 10:39:31 CPU Time: 0 0: 1:51.57 ( 111.57 sec) Binary
 2512    Time Step No. = 540 Elapsed Time = 5.880383E+04 days
 2513    Date: 02/14/07 Time: 10:39:37 CPU Time: 0 0: 1:58.09 ( 118.09 sec) Binary
 2515    Time Step No. = 560 Elapsed Time = 6.677868E+04 days
 2516    Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 2: 5.68 ( 125.68 sec) Binary
 2518    Time Step No. = 580 Elapsed Time = 7.749503E+04 days
 2519    Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 2:11.74 ( 131.74 sec) Binary
 2521    Time Step No. = 600 Elapsed Time = 8.560082E+04 days
 2522    Date: 02/14/07 Time: 10:40:00 CPU Time: 0 0: 2:20.80 ( 140.80 sec) Binary
 2524    Time Step No. = 620 Elapsed Time = 8.561748E+04 days
 2525    Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 2:23.86 ( 143.86 sec) Binary
 2527    Time Step No. = 640 Elapsed Time = 8.706305E+04 days
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2528   Date: 02/14/07 Time: 10:40:08 CPU Time: 0 0: 2:27.79 ( 147.79 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531   Date: 02/14/07 Time: 10:40:13 CPU Time: 0 0: 2:33.36 ( 153.36 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534   Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 2:41.39 ( 161.39 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537   Date: 02/14/07 Time: 10:40:29 CPU Time: 0 0: 2:49.17 ( 169.17 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540   Date: 02/14/07 Time: 10:40:36 CPU Time: 0 0: 2:56.12 ( 176.12 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543   Date: 02/14/07 Time: 10:40:45 CPU Time: 0 0: 3: 5.28 ( 185.28 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546   Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 3:11.09 ( 191.09 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549   Date: 02/14/07 Time: 10:40:59 CPU Time: 0 0: 3:19.59 ( 199.59 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552   Date: 02/14/07 Time: 10:41:02 CPU Time: 0 0: 3:22.35 ( 202.35 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555   Date: 02/14/07 Time: 10:41:07 CPU Time: 0 0: 3:27.38 ( 207.38 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558   Date: 02/14/07 Time: 10:41:13 CPU Time: 0 0: 3:32.99 ( 212.99 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561   Date: 02/14/07 Time: 10:41:21 CPU Time: 0 0: 3:41.01 ( 221.01 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564   Date: 02/14/07 Time: 10:41:26 CPU Time: 0 0: 3:46.18 ( 226.18 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567   Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 3:48.12 ( 228.12 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570   Date: 02/14/07 Time: 10:41:33 CPU Time: 0 0: 3:53.04 ( 233.04 sec) Binary
2572   Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573   Date: 02/14/07 Time: 10:41:40 CPU Time: 0 0: 3:59.73 ( 239.73 sec) Binary
2575   Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576   Date: 02/14/07 Time: 10:41:47 CPU Time: 0 0: 4: 7.11 ( 247.11 sec) Binary
2578   Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579   Date: 02/14/07 Time: 10:41:54 CPU Time: 0 0: 4:13.65 ( 253.65 sec) Binary
2581   Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582   Date: 02/14/07 Time: 10:42:00 CPU Time: 0 0: 4:20.02 ( 260.02 sec) Binary
2584   Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585   Date: 02/14/07 Time: 10:42:06 CPU Time: 0 0: 4:25.72 ( 265.72 sec) Binary
2587   Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
2588   Date: 02/14/07 Time: 10:42:14 CPU Time: 0 0: 4:33.72 ( 273.72 sec) Binary
2590   Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591   Date: 02/14/07 Time: 10:42:19 CPU Time: 0 0: 4:38.25 ( 278.25 sec) Binary
2593   Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594   Date: 02/14/07 Time: 10:42:27 CPU Time: 0 0: 4:46.26 ( 286.26 sec) Binary
2596   Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597   Date: 02/14/07 Time: 10:42:31 CPU Time: 0 0: 4:50.92 ( 290.92 sec) Binary
2599   Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600   Date: 02/14/07 Time: 10:42:38 CPU Time: 0 0: 4:58.03 ( 298.03 sec) Binary
2602   Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603   Date: 02/14/07 Time: 10:42:45 CPU Time: 0 0: 5: 4.93 ( 304.93 sec) Binary
2605   Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606   Date: 02/14/07 Time: 10:42:50 CPU Time: 0 0: 5: 9.58 ( 309.58 sec) Binary
2608   Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609   Date: 02/14/07 Time: 10:42:58 CPU Time: 0 0: 5:17.83 ( 317.83 sec) Binary
2611   Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612   Date: 02/14/07 Time: 10:43:06 CPU Time: 0 0: 5:25.60 ( 325.60 sec) Binary
2614   Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615   Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 5:32.46 ( 332.46 sec) Binary
2617   Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618   Date: 02/14/07 Time: 10:43:21 CPU Time: 0 0: 5:39.94 ( 339.94 sec) Binary
2620   Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621   Date: 02/14/07 Time: 10:43:27 CPU Time: 0 0: 5:46.61 ( 346.61 sec) Binary
2623   Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624   Date: 02/14/07 Time: 10:43:36 CPU Time: 0 0: 5:54.92 ( 354.92 sec) Binary
2626   Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627   Date: 02/14/07 Time: 10:43:44 CPU Time: 0 0: 6: 3.20 ( 363.20 sec) Binary
2629   Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630   Date: 02/14/07 Time: 10:43:52 CPU Time: 0 0: 6:10.92 ( 370.92 sec) Binary
2632   Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633   Date: 02/14/07 Time: 10:43:59 CPU Time: 0 0: 6:17.68 ( 377.68 sec) Binary
2635   Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636   Date: 02/14/07 Time: 10:44:06 CPU Time: 0 0: 6:25.17 ( 385.17 sec) Binary
2638   Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639   Date: 02/14/07 Time: 10:44:13 CPU Time: 0 0: 6:31.39 ( 391.39 sec) Binary
2641   Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
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2642    Date: 02/14/07 Time: 10:44:22 CPU Time: 0 0: 6:40.44 ( 400.44 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645    Date: 02/14/07 Time: 10:44:26 CPU Time: 0 0: 6:45.02 ( 405.02 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648    Date: 02/14/07 Time: 10:44:35 CPU Time: 0 0: 6:53.45 ( 413.45 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651    Date: 02/14/07 Time: 10:44:43 CPU Time: 0 0: 7: 1.57 ( 421.57 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654    Date: 02/14/07 Time: 10:44:51 CPU Time: 0 0: 7: 9.32 ( 429.32 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657    Date: 02/14/07 Time: 10:44:58 CPU Time: 0 0: 7:16.07 ( 436.07 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660    Date: 02/14/07 Time: 10:45:04 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663    Date: 02/14/07 Time: 10:45:12 CPU Time: 0 0: 7:30.09 ( 450.09 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666    Date: 02/14/07 Time: 10:45:18 CPU Time: 0 0: 7:36.51 ( 456.51 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669    Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 7:43.22 ( 463.22 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672    Date: 02/14/07 Time: 10:45:33 CPU Time: 0 0: 7:51.12 ( 471.12 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675    Date: 02/14/07 Time: 10:45:37 CPU Time: 0 0: 7:55.06 ( 475.06 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678    Date: 02/14/07 Time: 10:45:42 CPU Time: 0 0: 8: 0.01 ( 480.01 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681    Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 8: 7.60 ( 487.60 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684    Date: 02/14/07 Time: 10:45:54 CPU Time: 0 0: 8:12.33 ( 492.33 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687    Date: 02/14/07 Time: 10:46:07 CPU Time: 0 0: 8:24.58 ( 504.58 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690    Date: 02/14/07 Time: 10:46:16 CPU Time: 0 0: 8:33.64 ( 513.64 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693    Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 8:38.66 ( 518.66 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696    Date: 02/14/07 Time: 10:46:28 CPU Time: 0 0: 8:46.33 ( 526.33 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699    Date: 02/14/07 Time: 10:46:36 CPU Time: 0 0: 8:53.79 ( 533.79 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
2702    Date: 02/14/07 Time: 10:46:43 CPU Time: 0 0: 9: 0.42 ( 540.42 sec) Binary
2704    Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
2705    Date: 02/14/07 Time: 10:46:50 CPU Time: 0 0: 9: 7.73 ( 547.73 sec) Binary
2707    Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
2708    Date: 02/14/07 Time: 10:46:58 CPU Time: 0 0: 9:16.24 ( 556.24 sec) Binary
2710    Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
2711    Date: 02/14/07 Time: 10:47:06 CPU Time: 0 0: 9:24.28 ( 564.28 sec) Binary
2713    Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
2714    Date: 02/14/07 Time: 10:47:14 CPU Time: 0 0: 9:32.21 ( 572.21 sec) Binary
2716    Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
2717    Date: 02/14/07 Time: 10:47:23 CPU Time: 0 0: 9:41.01 ( 581.01 sec) Binary
2719    Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
2720    Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 9:49.53 ( 589.53 sec) Binary
2722    Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
2723    Date: 02/14/07 Time: 10:47:40 CPU Time: 0 0: 9:57.40 ( 597.40 sec) Binary
2725    Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
2726    Date: 02/14/07 Time: 10:47:44 CPU Time: 0 0:10: 1.77 ( 601.77 sec) Binary
2729    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
2450    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.49 ( 25.49 sec) ASCII
2452    Time Step No. = 155 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:45:06 CPU Time: 0 0: 0:25.50 ( 25.50 sec) Binary
2455    Time Step No. = 160 Elapsed Time = 1.602936E-04 days
2456    Date: 02/14/07 Time: 09:45:07 CPU Time: 0 0: 0:27.35 ( 27.35 sec) Binary
2458    Time Step No. = 180 Elapsed Time = 2.060139E-02 days
2459    Date: 02/14/07 Time: 09:45:11 CPU Time: 0 0: 0:30.48 ( 30.48 sec) Binary
2461    Time Step No. = 200 Elapsed Time = 1.665882E+00 days
2462    Date: 02/14/07 Time: 09:45:14 CPU Time: 0 0: 0:33.96 ( 33.96 sec) Binary
2464    Time Step No. = 220 Elapsed Time = 6.830542E+01 days
2465    Date: 02/14/07 Time: 09:45:18 CPU Time: 0 0: 0:37.78 ( 37.78 sec) Binary
2467    Time Step No. = 240 Elapsed Time = 9.026859E+02 days
2468    Date: 02/14/07 Time: 09:45:23 CPU Time: 0 0: 0:43.13 ( 43.13 sec) Binary
2470    Time Step No. = 260 Elapsed Time = 5.565489E+03 days
2471    Date: 02/14/07 Time: 09:45:30 CPU Time: 0 0: 0:49.76 ( 49.76 sec) Binary
2473    Time Step No. = 280 Elapsed Time = 1.541474E+04 days
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2474   Date: 02/14/07 Time: 09:45:39 CPU Time: 0 0: 0:58.84 ( 58.84 sec) Binary
2476   Time Step No. = 300 Elapsed Time = 2.464433E+04 days
2477   Date: 02/14/07 Time: 09:45:47 CPU Time: 0 0: 1: 6.56 ( 66.56 sec) Binary
2479   Time Step No. = 320 Elapsed Time = 2.540653E+04 days
2480   Date: 02/14/07 Time: 09:45:54 CPU Time: 0 0: 1:13.95 ( 73.95 sec) Binary
2482   Time Step No. = 340 Elapsed Time = 2.583713E+04 days
2483   Date: 02/14/07 Time: 09:45:58 CPU Time: 0 0: 1:17.79 ( 77.79 sec) Binary
2485   Time Step No. = 360 Elapsed Time = 3.095805E+04 days
2486   Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1:25.40 ( 85.40 sec) Binary
2488   Time Step No. = 380 Elapsed Time = 3.652922E+04 days
2489   Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 1:34.85 ( 94.85 sec) Binary
2491   Time Step No. = 400 Elapsed Time = 3.666828E+04 days
2492   Date: 02/14/07 Time: 09:46:19 CPU Time: 0 0: 1:39.07 ( 99.07 sec) Binary
2494   Time Step No. = 420 Elapsed Time = 3.667257E+04 days
2495   Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 1:40.93 ( 100.93 sec) Binary
2497   Time Step No. = 440 Elapsed Time = 3.689196E+04 days
2498   Date: 02/14/07 Time: 09:46:25 CPU Time: 0 0: 1:45.02 ( 105.02 sec) Binary
2500   Time Step No. = 460 Elapsed Time = 3.751198E+04 days
2501   Date: 02/14/07 Time: 09:46:31 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
2503   Time Step No. = 480 Elapsed Time = 3.782453E+04 days
2504   Date: 02/14/07 Time: 09:46:35 CPU Time: 0 0: 1:54.50 ( 114.50 sec) Binary
2506   Time Step No. = 500 Elapsed Time = 4.141513E+04 days
2507   Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 2: 1.30 ( 121.30 sec) Binary
2509   Time Step No. = 520 Elapsed Time = 5.494758E+04 days
2510   Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 2:10.13 ( 130.13 sec) Binary
2512   Time Step No. = 540 Elapsed Time = 5.880383E+04 days
2513   Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 2:17.84 ( 137.84 sec) Binary
2515   Time Step No. = 560 Elapsed Time = 6.677868E+04 days
2516   Date: 02/14/07 Time: 09:47:07 CPU Time: 0 0: 2:26.79 ( 146.79 sec) Binary
2518   Time Step No. = 580 Elapsed Time = 7.749503E+04 days
2519   Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 2:33.96 ( 153.96 sec) Binary
2521   Time Step No. = 600 Elapsed Time = 8.560082E+04 days
2522   Date: 02/14/07 Time: 09:47:25 CPU Time: 0 0: 2:44.64 ( 164.64 sec) Binary
2524   Time Step No. = 620 Elapsed Time = 8.561748E+04 days
2525   Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:48.16 ( 168.16 sec) Binary
2527   Time Step No. = 640 Elapsed Time = 8.706305E+04 days
2528   Date: 02/14/07 Time: 09:47:33 CPU Time: 0 0: 2:52.72 ( 172.72 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 8.948916E+04 days
2531   Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 2:58.99 ( 178.99 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 1.244434E+05 days
2534   Date: 02/14/07 Time: 09:47:49 CPU Time: 0 0: 3: 8.21 ( 188.21 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 1.293962E+05 days
2537   Date: 02/14/07 Time: 09:47:58 CPU Time: 0 0: 3:17.38 ( 197.38 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 2.352116E+05 days
2540   Date: 02/14/07 Time: 09:48:06 CPU Time: 0 0: 3:25.58 ( 205.58 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 2.631586E+05 days
2543   Date: 02/14/07 Time: 09:48:17 CPU Time: 0 0: 3:36.36 ( 216.36 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 2.692618E+05 days
2546   Date: 02/14/07 Time: 09:48:24 CPU Time: 0 0: 3:43.24 ( 223.24 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 3.652431E+05 days
2549   Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:53.23 ( 233.23 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 3.652437E+05 days
2552   Date: 02/14/07 Time: 09:48:37 CPU Time: 0 0: 3:56.50 ( 236.50 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 3.652474E+05 days
2555   Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 4: 2.16 ( 242.16 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 3.654644E+05 days
2558   Date: 02/14/07 Time: 09:48:49 CPU Time: 0 0: 4: 8.40 ( 248.40 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 3.661978E+05 days
2561   Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 4:17.21 ( 257.21 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 3.665118E+05 days
2564   Date: 02/14/07 Time: 09:49:04 CPU Time: 0 0: 4:22.90 ( 262.90 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 3.665161E+05 days
2567   Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 4:25.15 ( 265.15 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 3.666517E+05 days
2570   Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 4:30.82 ( 270.82 sec) Binary
2572   Time Step No. = 940 Elapsed Time = 3.669134E+05 days
2573   Date: 02/14/07 Time: 09:49:19 CPU Time: 0 0: 4:38.50 ( 278.50 sec) Binary
2575   Time Step No. = 960 Elapsed Time = 3.696042E+05 days
2576   Date: 02/14/07 Time: 09:49:28 CPU Time: 0 0: 4:47.16 ( 287.16 sec) Binary
2578   Time Step No. = 980 Elapsed Time = 3.704084E+05 days
2579   Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 4:54.86 ( 294.86 sec) Binary
2581   Time Step No. = 1000 Elapsed Time = 3.707712E+05 days
2582   Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 5: 2.35 ( 302.35 sec) Binary
2584   Time Step No. = 1020 Elapsed Time = 3.722262E+05 days
2585   Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 5: 9.10 ( 309.10 sec) Binary
2587   Time Step No. = 1040 Elapsed Time = 3.909424E+05 days
```

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2588    Date: 02/14/07 Time: 09:50:00 CPU Time: 0 0: 5:18.53 ( 318.53 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 4.040932E+05 days
2591    Date: 02/14/07 Time: 09:50:05 CPU Time: 0 0: 5:23.87 ( 323.87 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 4.163997E+05 days
2594    Date: 02/14/07 Time: 09:50:14 CPU Time: 0 0: 5:33.29 ( 333.29 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 4.437624E+05 days
2597    Date: 02/14/07 Time: 09:50:20 CPU Time: 0 0: 5:38.85 ( 338.85 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 5.658621E+05 days
2600    Date: 02/14/07 Time: 09:50:28 CPU Time: 0 0: 5:47.25 ( 347.25 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.046705E+05 days
2603    Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 5:55.37 ( 355.37 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 7.381612E+05 days
2606    Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 6: 0.84 ( 360.84 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 9.116476E+05 days
2609    Date: 02/14/07 Time: 09:50:52 CPU Time: 0 0: 6:10.55 ( 370.55 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 9.684741E+05 days
2612    Date: 02/14/07 Time: 09:51:01 CPU Time: 0 0: 6:19.69 ( 379.69 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.022758E+06 days
2615    Date: 02/14/07 Time: 09:51:09 CPU Time: 0 0: 6:27.75 ( 387.75 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 1.304477E+06 days
2618    Date: 02/14/07 Time: 09:51:18 CPU Time: 0 0: 6:36.54 ( 396.54 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 1.335824E+06 days
2621    Date: 02/14/07 Time: 09:51:26 CPU Time: 0 0: 6:44.37 ( 404.37 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.393919E+06 days
2624    Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 6:54.16 ( 414.16 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.425600E+06 days
2627    Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 7: 3.87 ( 423.87 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.580399E+06 days
2630    Date: 02/14/07 Time: 09:51:54 CPU Time: 0 0: 7:12.96 ( 432.96 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.602750E+06 days
2633    Date: 02/14/07 Time: 09:52:02 CPU Time: 0 0: 7:20.92 ( 440.92 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.806216E+06 days
2636    Date: 02/14/07 Time: 09:52:11 CPU Time: 0 0: 7:29.74 ( 449.74 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.891443E+06 days
2639    Date: 02/14/07 Time: 09:52:18 CPU Time: 0 0: 7:37.11 ( 457.11 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.031879E+06 days
2642    Date: 02/14/07 Time: 09:52:29 CPU Time: 0 0: 7:47.71 ( 467.71 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.100194E+06 days
2645    Date: 02/14/07 Time: 09:52:34 CPU Time: 0 0: 7:53.12 ( 473.12 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.116698E+06 days
2648    Date: 02/14/07 Time: 09:52:44 CPU Time: 0 0: 8: 3.02 ( 483.02 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.134148E+06 days
2651    Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 8:12.59 ( 492.59 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.145128E+06 days
2654    Date: 02/14/07 Time: 09:53:03 CPU Time: 0 0: 8:21.75 ( 501.75 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.174866E+06 days
2657    Date: 02/14/07 Time: 09:53:11 CPU Time: 0 0: 8:29.74 ( 509.74 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.195982E+06 days
2660    Date: 02/14/07 Time: 09:53:19 CPU Time: 0 0: 8:37.16 ( 517.16 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.260984E+06 days
2663    Date: 02/14/07 Time: 09:53:27 CPU Time: 0 0: 8:46.04 ( 526.04 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.301705E+06 days
2666    Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:53.11 ( 533.11 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.432519E+06 days
2669    Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 9: 0.50 ( 540.50 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.435587E+06 days
2672    Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 9: 9.17 ( 549.17 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 2.463476E+06 days
2675    Date: 02/14/07 Time: 09:53:55 CPU Time: 0 0: 9:13.49 ( 553.49 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.821366E+06 days
2678    Date: 02/14/07 Time: 09:54:01 CPU Time: 0 0: 9:19.25 ( 559.25 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.999402E+06 days
2681    Date: 02/14/07 Time: 09:54:09 CPU Time: 0 0: 9:27.97 ( 567.97 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.399402E+06 days
2684    Date: 02/14/07 Time: 09:54:15 CPU Time: 0 0: 9:33.22 ( 573.22 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 3.449911E+06 days
2687    Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 9:46.68 ( 586.68 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 3.453010E+06 days
2690    Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 9:56.65 ( 596.65 sec) Binary
2692    Time Step No. = 1740 Elapsed Time = 3.454154E+06 days
2693    Date: 02/14/07 Time: 09:54:44 CPU Time: 0 0:10: 2.16 ( 602.16 sec) Binary
2695    Time Step No. = 1760 Elapsed Time = 3.456469E+06 days
2696    Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0:10:10.52 ( 610.52 sec) Binary
2698    Time Step No. = 1780 Elapsed Time = 3.459213E+06 days
2699    Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0:10:18.75 ( 618.75 sec) Binary
2701    Time Step No. = 1800 Elapsed Time = 3.461847E+06 days
```

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 2702     Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0:10:26.21 ( 626.21 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 3.465426E+06 days
 2705     Date: 02/14/07 Time: 09:55:16 CPU Time: 0 0:10:34.59 ( 634.59 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 3.468037E+06 days
 2708     Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0:10:44.40 ( 644.40 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 3.471327E+06 days
 2711     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0:10:53.66 ( 653.66 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.473863E+06 days
 2714     Date: 02/14/07 Time: 09:55:44 CPU Time: 0 0:11: 2.79 ( 662.79 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.477561E+06 days
 2717     Date: 02/14/07 Time: 09:55:55 CPU Time: 0 0:11:12.94 ( 672.94 sec) Binary
 2719     Time Step No. = 1920 Elapsed Time = 3.480469E+06 days
 2720     Date: 02/14/07 Time: 09:56:04 CPU Time: 0 0:11:22.75 ( 682.75 sec) Binary
 2722     Time Step No. = 1940 Elapsed Time = 3.484165E+06 days
 2723     Date: 02/14/07 Time: 09:56:13 CPU Time: 0 0:11:31.45 ( 691.45 sec) Binary
 2725     Time Step No. = 1960 Elapsed Time = 3.553867E+06 days
 2726     Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0:11:36.25 ( 696.25 sec) Binary
 2729     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
 2745     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2746     CPU Time (total for run) = 602.79 sec = 0.16744 hr
 2747    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 2745     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2746     CPU Time (total for run) = 697.37 sec = 0.19371 hr
 2747    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1
 3423     Date: 02/14/07 Time: 10:47:45 CPU Time: 0 0:10: 2.80 ( 602.80 sec) ASCII
 3425     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3426     Date: 02/14/07 Time: 10:47:45 CPU Time: 0 0:10: 2.81 ( 602.81 sec) Binary
 3431     ******************************************************************************
 3432     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3433     * Completed: 02/14/07 at 10:47:45 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3434     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
 3423     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) ASCII
 3425     Time Step No. = 1966 Elapsed Time = 3.652431E+06 days
 3426     Date: 02/14/07 Time: 09:56:19 CPU Time: 0 0:11:37.39 ( 697.39 sec) Binary
 3431     ******************************************************************************
 3432     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3433     * Completed: 02/14/07 at 09:56:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3434     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 202

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES45_TEST7_V005.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V005]BF2_QB0600_ES47_TEST7_V005.OUT;1
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BF2_QB0600_ES45_TEST7_V006_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
    3     ** Begun on: 02/14/07 at 10:38:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
    3     ** Begun on: 02/14/07 at 09:45:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
   62     ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_TEST7_V006.INP;2
   62      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_CLOSURE.DAT;1
   67      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   72      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 1772      CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773      CPU Time (total for run) = 23.81 sec = 0.00661 hr
 1774      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 1772      CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773      CPU Time (total for run) = 28.24 sec = 0.00784 hr
 1774      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 2450      Date: 02/14/07 Time: 10:38:43 CPU Time: 0 0: 0:23.83 ( 23.83 sec) ASCII
 2452      Time Step No. = 148 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:38:43 CPU Time: 0 0: 0:23.83 ( 23.83 sec) Binary
 2455      Time Step No. = 160 Elapsed Time = 1.693989E-02 days
 2456      Date: 02/14/07 Time: 10:38:47 CPU Time: 0 0: 0:28.00 ( 28.00 sec) Binary
 2458      Time Step No. = 180 Elapsed Time = 1.499754E+00 days
 2459      Date: 02/14/07 Time: 10:38:50 CPU Time: 0 0: 0:31.17 ( 31.17 sec) Binary
 2461      Time Step No. = 200 Elapsed Time = 6.033075E+01 days
 2462      Date: 02/14/07 Time: 10:38:53 CPU Time: 0 0: 0:34.52 ( 34.52 sec) Binary
 2464      Time Step No. = 220 Elapsed Time = 2.893437E+02 days
 2465      Date: 02/14/07 Time: 10:38:57 CPU Time: 0 0: 0:38.60 ( 38.60 sec) Binary
 2467      Time Step No. = 240 Elapsed Time = 1.396859E+03 days
 2468      Date: 02/14/07 Time: 10:39:02 CPU Time: 0 0: 0:43.07 ( 43.07 sec) Binary
 2470      Time Step No. = 260 Elapsed Time = 8.613100E+03 days
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2471    Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:48.76 ( 48.76 sec) Binary
2473    Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474    Date: 02/14/07 Time: 10:39:11 CPU Time: 0 0: 0:52.12 ( 52.12 sec) Binary
2476    Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477    Date: 02/14/07 Time: 10:39:17 CPU Time: 0 0: 0:58.17 ( 58.17 sec) Binary
2479    Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480    Date: 02/14/07 Time: 10:39:22 CPU Time: 0 0: 1: 2.67 ( 62.67 sec) Binary
2482    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483    Date: 02/14/07 Time: 10:39:31 CPU Time: 0 0: 1:12.49 ( 72.49 sec) Binary
2485    Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486    Date: 02/14/07 Time: 10:39:34 CPU Time: 0 0: 1:15.37 ( 75.37 sec) Binary
2488    Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489    Date: 02/14/07 Time: 10:39:37 CPU Time: 0 0: 1:17.91 ( 77.91 sec) Binary
2491    Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492    Date: 02/14/07 Time: 10:39:41 CPU Time: 0 0: 1:22.20 ( 82.20 sec) Binary
2494    Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495    Date: 02/14/07 Time: 10:39:43 CPU Time: 0 0: 1:23.86 ( 83.86 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498    Date: 02/14/07 Time: 10:39:46 CPU Time: 0 0: 1:26.69 ( 86.69 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2501    Date: 02/14/07 Time: 10:39:50 CPU Time: 0 0: 1:30.92 ( 90.92 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504    Date: 02/14/07 Time: 10:39:56 CPU Time: 0 0: 1:37.10 ( 97.10 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507    Date: 02/14/07 Time: 10:40:06 CPU Time: 0 0: 1:47.19 ( 107.19 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510    Date: 02/14/07 Time: 10:40:14 CPU Time: 0 0: 1:54.56 ( 114.56 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513    Date: 02/14/07 Time: 10:40:22 CPU Time: 0 0: 2: 3.16 ( 123.16 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516    Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 2:11.72 ( 131.72 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519    Date: 02/14/07 Time: 10:40:35 CPU Time: 0 0: 2:15.33 ( 135.33 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522    Date: 02/14/07 Time: 10:40:37 CPU Time: 0 0: 2:18.10 ( 138.10 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525    Date: 02/14/07 Time: 10:40:39 CPU Time: 0 0: 2:20.09 ( 140.09 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528    Date: 02/14/07 Time: 10:40:44 CPU Time: 0 0: 2:24.38 ( 144.38 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531    Date: 02/14/07 Time: 10:40:51 CPU Time: 0 0: 2:32.02 ( 152.02 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534    Date: 02/14/07 Time: 10:41:01 CPU Time: 0 0: 2:41.60 ( 161.60 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537    Date: 02/14/07 Time: 10:41:05 CPU Time: 0 0: 2:45.48 ( 165.48 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540    Date: 02/14/07 Time: 10:41:12 CPU Time: 0 0: 2:52.59 ( 172.59 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543    Date: 02/14/07 Time: 10:41:19 CPU Time: 0 0: 2:59.87 ( 179.87 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546    Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 3: 7.93 ( 187.93 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549    Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 3:15.27 ( 195.27 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552    Date: 02/14/07 Time: 10:41:41 CPU Time: 0 0: 3:21.55 ( 201.55 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555    Date: 02/14/07 Time: 10:41:49 CPU Time: 0 0: 3:29.69 ( 209.69 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558    Date: 02/14/07 Time: 10:41:56 CPU Time: 0 0: 3:36.30 ( 216.30 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561    Date: 02/14/07 Time: 10:42:02 CPU Time: 0 0: 3:42.30 ( 222.30 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564    Date: 02/14/07 Time: 10:42:08 CPU Time: 0 0: 3:47.82 ( 227.82 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567    Date: 02/14/07 Time: 10:42:12 CPU Time: 0 0: 3:52.41 ( 232.41 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570    Date: 02/14/07 Time: 10:42:21 CPU Time: 0 0: 4: 1.13 ( 241.13 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573    Date: 02/14/07 Time: 10:42:25 CPU Time: 0 0: 4: 5.48 ( 245.48 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576    Date: 02/14/07 Time: 10:42:32 CPU Time: 0 0: 4:12.49 ( 252.49 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579    Date: 02/14/07 Time: 10:42:39 CPU Time: 0 0: 4:19.34 ( 259.34 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582    Date: 02/14/07 Time: 10:42:42 CPU Time: 0 0: 4:22.65 ( 262.65 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
```

```
2585    Date: 02/14/07 Time: 10:42:48 CPU Time: 0 0: 4:28.47 ( 268.47 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
2588    Date: 02/14/07 Time: 10:42:54 CPU Time: 0 0: 4:33.99 ( 273.99 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
2591    Date: 02/14/07 Time: 10:43:00 CPU Time: 0 0: 4:40.35 ( 280.35 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
2594    Date: 02/14/07 Time: 10:43:04 CPU Time: 0 0: 4:44.53 ( 284.53 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
2597    Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 4:52.59 ( 292.59 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
2600    Date: 02/14/07 Time: 10:43:16 CPU Time: 0 0: 4:56.41 ( 296.41 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
2603    Date: 02/14/07 Time: 10:43:22 CPU Time: 0 0: 5: 1.77 ( 301.77 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
2606    Date: 02/14/07 Time: 10:43:26 CPU Time: 0 0: 5: 5.87 ( 305.87 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
2609    Date: 02/14/07 Time: 10:43:34 CPU Time: 0 0: 5:13.52 ( 313.52 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
2612    Date: 02/14/07 Time: 10:43:43 CPU Time: 0 0: 5:22.49 ( 322.49 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
2615    Date: 02/14/07 Time: 10:43:48 CPU Time: 0 0: 5:27.56 ( 327.56 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
2618    Date: 02/14/07 Time: 10:43:56 CPU Time: 0 0: 5:36.24 ( 336.24 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
2621    Date: 02/14/07 Time: 10:44:04 CPU Time: 0 0: 5:44.00 ( 344.00 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
2624    Date: 02/14/07 Time: 10:44:11 CPU Time: 0 0: 5:50.23 ( 350.23 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
2627    Date: 02/14/07 Time: 10:44:17 CPU Time: 0 0: 5:56.30 ( 356.30 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
2630    Date: 02/14/07 Time: 10:44:25 CPU Time: 0 0: 6: 4.21 ( 364.21 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
2633    Date: 02/14/07 Time: 10:44:36 CPU Time: 0 0: 6:15.13 ( 375.13 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
2636    Date: 02/14/07 Time: 10:44:40 CPU Time: 0 0: 6:19.58 ( 379.58 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
2639    Date: 02/14/07 Time: 10:44:45 CPU Time: 0 0: 6:24.70 ( 384.70 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
2642    Date: 02/14/07 Time: 10:44:50 CPU Time: 0 0: 6:29.74 ( 389.74 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
2645    Date: 02/14/07 Time: 10:44:58 CPU Time: 0 0: 6:37.33 ( 397.33 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
2648    Date: 02/14/07 Time: 10:45:05 CPU Time: 0 0: 6:44.18 ( 404.18 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
2651    Date: 02/14/07 Time: 10:45:10 CPU Time: 0 0: 6:49.52 ( 409.52 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
2654    Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 6:53.92 ( 413.92 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
2657    Date: 02/14/07 Time: 10:45:21 CPU Time: 0 0: 7: 0.75 ( 420.75 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
2660    Date: 02/14/07 Time: 10:45:29 CPU Time: 0 0: 7: 7.88 ( 427.88 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
2663    Date: 02/14/07 Time: 10:45:34 CPU Time: 0 0: 7:12.71 ( 432.71 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
2666    Date: 02/14/07 Time: 10:45:38 CPU Time: 0 0: 7:17.43 ( 437.43 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
2669    Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 7:24.44 ( 444.44 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
2672    Date: 02/14/07 Time: 10:45:50 CPU Time: 0 0: 7:29.12 ( 449.12 sec) Binary
2675    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
2450    Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) ASCII
2452    Time Step No. = 148 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:45:32 CPU Time: 0 0: 0:28.26 ( 28.26 sec) Binary
2455    Time Step No. = 160 Elapsed Time = 1.693989E-02 days
2456    Date: 02/14/07 Time: 09:45:37 CPU Time: 0 0: 0:33.21 ( 33.21 sec) Binary
2458    Time Step No. = 180 Elapsed Time = 1.499754E+00 days
2459    Date: 02/14/07 Time: 09:45:41 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
2461    Time Step No. = 200 Elapsed Time = 6.033075E+01 days
2462    Date: 02/14/07 Time: 09:45:45 CPU Time: 0 0: 0:40.92 ( 40.92 sec) Binary
2464    Time Step No. = 220 Elapsed Time = 2.893437E+02 days
2465    Date: 02/14/07 Time: 09:45:50 CPU Time: 0 0: 0:45.59 ( 45.59 sec) Binary
2467    Time Step No. = 240 Elapsed Time = 1.396859E+03 days
2468    Date: 02/14/07 Time: 09:45:55 CPU Time: 0 0: 0:50.76 ( 50.76 sec) Binary
2470    Time Step No. = 260 Elapsed Time = 8.613100E+03 days
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2471   Date: 02/14/07 Time: 09:46:02 CPU Time: 0 0: 0:57.35 ( 57.35 sec) Binary
2473   Time Step No. = 280 Elapsed Time = 1.102377E+04 days
2474   Date: 02/14/07 Time: 09:46:06 CPU Time: 0 0: 1: 1.27 ( 61.27 sec) Binary
2476   Time Step No. = 300 Elapsed Time = 2.378052E+04 days
2477   Date: 02/14/07 Time: 09:46:13 CPU Time: 0 0: 1: 8.51 ( 68.51 sec) Binary
2479   Time Step No. = 320 Elapsed Time = 2.835195E+04 days
2480   Date: 02/14/07 Time: 09:46:18 CPU Time: 0 0: 1:13.81 ( 73.81 sec) Binary
2482   Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483   Date: 02/14/07 Time: 09:46:30 CPU Time: 0 0: 1:25.19 ( 85.19 sec) Binary
2485   Time Step No. = 360 Elapsed Time = 3.652432E+04 days
2486   Date: 02/14/07 Time: 09:46:33 CPU Time: 0 0: 1:28.54 ( 88.54 sec) Binary
2488   Time Step No. = 380 Elapsed Time = 3.652571E+04 days
2489   Date: 02/14/07 Time: 09:46:36 CPU Time: 0 0: 1:31.48 ( 91.48 sec) Binary
2491   Time Step No. = 400 Elapsed Time = 3.660922E+04 days
2492   Date: 02/14/07 Time: 09:46:41 CPU Time: 0 0: 1:36.46 ( 96.46 sec) Binary
2494   Time Step No. = 420 Elapsed Time = 3.666204E+04 days
2495   Date: 02/14/07 Time: 09:46:43 CPU Time: 0 0: 1:38.36 ( 98.36 sec) Binary
2497   Time Step No. = 440 Elapsed Time = 3.681434E+04 days
2498   Date: 02/14/07 Time: 09:46:46 CPU Time: 0 0: 1:41.65 ( 101.65 sec) Binary
2500   Time Step No. = 460 Elapsed Time = 4.034225E+04 days
2501   Date: 02/14/07 Time: 09:46:51 CPU Time: 0 0: 1:46.55 ( 106.55 sec) Binary
2503   Time Step No. = 480 Elapsed Time = 1.114354E+05 days
2504   Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:53.67 ( 113.67 sec) Binary
2506   Time Step No. = 500 Elapsed Time = 1.517026E+05 days
2507   Date: 02/14/07 Time: 09:47:10 CPU Time: 0 0: 2: 5.27 ( 125.27 sec) Binary
2509   Time Step No. = 520 Elapsed Time = 1.887778E+05 days
2510   Date: 02/14/07 Time: 09:47:19 CPU Time: 0 0: 2:13.77 ( 133.77 sec) Binary
2512   Time Step No. = 540 Elapsed Time = 2.709363E+05 days
2513   Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 2:23.77 ( 143.77 sec) Binary
2515   Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2516   Date: 02/14/07 Time: 09:47:39 CPU Time: 0 0: 2:33.83 ( 153.83 sec) Binary
2518   Time Step No. = 580 Elapsed Time = 3.657082E+05 days
2519   Date: 02/14/07 Time: 09:47:43 CPU Time: 0 0: 2:38.11 ( 158.11 sec) Binary
2521   Time Step No. = 600 Elapsed Time = 3.665648E+05 days
2522   Date: 02/14/07 Time: 09:47:46 CPU Time: 0 0: 2:41.37 ( 161.37 sec) Binary
2524   Time Step No. = 620 Elapsed Time = 3.666428E+05 days
2525   Date: 02/14/07 Time: 09:47:48 CPU Time: 0 0: 2:43.69 ( 163.69 sec) Binary
2527   Time Step No. = 640 Elapsed Time = 3.734062E+05 days
2528   Date: 02/14/07 Time: 09:47:53 CPU Time: 0 0: 2:48.61 ( 168.61 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 4.270734E+05 days
2531   Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 2:57.35 ( 177.35 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 4.797087E+05 days
2534   Date: 02/14/07 Time: 09:48:13 CPU Time: 0 0: 3: 8.33 ( 188.33 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 4.872588E+05 days
2537   Date: 02/14/07 Time: 09:48:18 CPU Time: 0 0: 3:12.77 ( 192.77 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 5.487048E+05 days
2540   Date: 02/14/07 Time: 09:48:26 CPU Time: 0 0: 3:20.90 ( 200.90 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 6.367867E+05 days
2543   Date: 02/14/07 Time: 09:48:34 CPU Time: 0 0: 3:29.25 ( 209.25 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 7.447857E+05 days
2546   Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 3:38.49 ( 218.49 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 9.573700E+05 days
2549   Date: 02/14/07 Time: 09:48:52 CPU Time: 0 0: 3:46.91 ( 226.91 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 1.131770E+06 days
2552   Date: 02/14/07 Time: 09:48:59 CPU Time: 0 0: 3:54.11 ( 234.11 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 1.215464E+06 days
2555   Date: 02/14/07 Time: 09:49:08 CPU Time: 0 0: 4: 3.22 ( 243.22 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 1.307642E+06 days
2558   Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 4:11.03 ( 251.03 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 1.331147E+06 days
2561   Date: 02/14/07 Time: 09:49:23 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 1.340543E+06 days
2564   Date: 02/14/07 Time: 09:49:29 CPU Time: 0 0: 4:24.36 ( 264.36 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 1.361885E+06 days
2567   Date: 02/14/07 Time: 09:49:35 CPU Time: 0 0: 4:29.62 ( 269.62 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 1.389921E+06 days
2570   Date: 02/14/07 Time: 09:49:45 CPU Time: 0 0: 4:39.62 ( 279.62 sec) Binary
2572   Time Step No. = 940 Elapsed Time = 1.395803E+06 days
2573   Date: 02/14/07 Time: 09:49:50 CPU Time: 0 0: 4:44.64 ( 284.64 sec) Binary
2575   Time Step No. = 960 Elapsed Time = 1.396248E+06 days
2576   Date: 02/14/07 Time: 09:49:58 CPU Time: 0 0: 4:52.67 ( 292.67 sec) Binary
2578   Time Step No. = 980 Elapsed Time = 1.400907E+06 days
2579   Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 5: 0.51 ( 300.51 sec) Binary
2581   Time Step No. = 1000 Elapsed Time = 1.401669E+06 days
2582   Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 5: 4.31 ( 304.31 sec) Binary
2584   Time Step No. = 1020 Elapsed Time = 1.452402E+06 days
```

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 2585     Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 5:11.00 ( 311.00 sec) Binary
 2587     Time Step No. = 1040 Elapsed Time = 1.481180E+06 days
 2588     Date: 02/14/07 Time: 09:50:23 CPU Time: 0 0: 5:17.36 ( 317.36 sec) Binary
 2590     Time Step No. = 1060 Elapsed Time = 1.516157E+06 days
 2591     Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 5:24.66 ( 324.66 sec) Binary
 2593     Time Step No. = 1080 Elapsed Time = 1.536729E+06 days
 2594     Date: 02/14/07 Time: 09:50:35 CPU Time: 0 0: 5:29.45 ( 329.45 sec) Binary
 2596     Time Step No. = 1100 Elapsed Time = 1.558583E+06 days
 2597     Date: 02/14/07 Time: 09:50:44 CPU Time: 0 0: 5:38.71 ( 338.71 sec) Binary
 2599     Time Step No. = 1120 Elapsed Time = 1.568030E+06 days
 2600     Date: 02/14/07 Time: 09:50:49 CPU Time: 0 0: 5:43.11 ( 343.11 sec) Binary
 2602     Time Step No. = 1140 Elapsed Time = 1.569625E+06 days
 2603     Date: 02/14/07 Time: 09:50:55 CPU Time: 0 0: 5:49.27 ( 349.27 sec) Binary
 2605     Time Step No. = 1160 Elapsed Time = 1.586975E+06 days
 2606     Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 5:54.01 ( 354.01 sec) Binary
 2608     Time Step No. = 1180 Elapsed Time = 1.778016E+06 days
 2609     Date: 02/14/07 Time: 09:51:08 CPU Time: 0 0: 6: 2.78 ( 362.78 sec) Binary
 2611     Time Step No. = 1200 Elapsed Time = 1.851752E+06 days
 2612     Date: 02/14/07 Time: 09:51:19 CPU Time: 0 0: 6:13.04 ( 373.04 sec) Binary
 2614     Time Step No. = 1220 Elapsed Time = 1.872533E+06 days
 2615     Date: 02/14/07 Time: 09:51:24 CPU Time: 0 0: 6:18.86 ( 378.86 sec) Binary
 2617     Time Step No. = 1240 Elapsed Time = 2.047943E+06 days
 2618     Date: 02/14/07 Time: 09:51:34 CPU Time: 0 0: 6:28.80 ( 388.80 sec) Binary
 2620     Time Step No. = 1260 Elapsed Time = 2.192064E+06 days
 2621     Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 6:37.73 ( 397.73 sec) Binary
 2623     Time Step No. = 1280 Elapsed Time = 2.209031E+06 days
 2624     Date: 02/14/07 Time: 09:51:50 CPU Time: 0 0: 6:44.90 ( 404.90 sec) Binary
 2626     Time Step No. = 1300 Elapsed Time = 2.228198E+06 days
 2627     Date: 02/14/07 Time: 09:51:58 CPU Time: 0 0: 6:51.87 ( 411.87 sec) Binary
 2629     Time Step No. = 1320 Elapsed Time = 2.477165E+06 days
 2630     Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 7: 0.86 ( 420.86 sec) Binary
 2632     Time Step No. = 1340 Elapsed Time = 2.582796E+06 days
 2633     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 7:13.36 ( 433.36 sec) Binary
 2635     Time Step No. = 1360 Elapsed Time = 2.658805E+06 days
 2636     Date: 02/14/07 Time: 09:52:24 CPU Time: 0 0: 7:18.55 ( 438.55 sec) Binary
 2638     Time Step No. = 1380 Elapsed Time = 2.660777E+06 days
 2639     Date: 02/14/07 Time: 09:52:30 CPU Time: 0 0: 7:24.70 ( 444.70 sec) Binary
 2641     Time Step No. = 1400 Elapsed Time = 2.694236E+06 days
 2642     Date: 02/14/07 Time: 09:52:37 CPU Time: 0 0: 7:30.78 ( 450.78 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 2.897354E+06 days
 2645     Date: 02/14/07 Time: 09:52:46 CPU Time: 0 0: 7:39.90 ( 459.90 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 3.068770E+06 days
 2648     Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 7:48.13 ( 468.13 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 3.070972E+06 days
 2651     Date: 02/14/07 Time: 09:53:01 CPU Time: 0 0: 7:54.59 ( 474.59 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 3.092364E+06 days
 2654     Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 7:59.91 ( 479.91 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 3.321015E+06 days
 2657     Date: 02/14/07 Time: 09:53:14 CPU Time: 0 0: 8: 8.13 ( 488.13 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.330337E+06 days
 2660     Date: 02/14/07 Time: 09:53:23 CPU Time: 0 0: 8:16.71 ( 496.71 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.331762E+06 days
 2663     Date: 02/14/07 Time: 09:53:29 CPU Time: 0 0: 8:22.53 ( 502.53 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 3.334405E+06 days
 2666     Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 8:28.18 ( 508.18 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 3.374435E+06 days
 2669     Date: 02/14/07 Time: 09:53:43 CPU Time: 0 0: 8:36.62 ( 516.62 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 3.552011E+06 days
 2672     Date: 02/14/07 Time: 09:53:48 CPU Time: 0 0: 8:42.29 ( 522.29 sec) Binary
 2675     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 2691     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2692     CPU Time (total for run) = 450.72 sec = 0.12520 hr
 2693    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 2691     CPU Time (this time step) = 0.22 sec = 0.00006 hr
 2692     CPU Time (total for run) = 524.22 sec = 0.14562 hr
 2693    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1
 3369     Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 7:30.74 ( 450.74 sec) ASCII
 3371     Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
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 3372     Date: 02/14/07 Time: 10:45:52 CPU Time: 0 0: 7:30.74 ( 450.74 sec) Binary
 3377     ********************************************************************************
 3378     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3379     * Completed: 02/14/07 at 10:45:52 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3380     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
 3369     Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) ASCII
 3371     Time Step No. = 1606 Elapsed Time = 3.652431E+06 days
 3372     Date: 02/14/07 Time: 09:53:50 CPU Time: 0 0: 8:44.24 ( 524.24 sec) Binary
 3377     ********************************************************************************
 3378     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3379     * Completed: 02/14/07 at 09:53:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3380     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 166

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES45_TEST7_V006.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V006]BF2_QB0600_ES47_TEST7_V006.OUT;1
```

BF2_QB0600_ES45_TEST7_V007_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
    3     ** Begun on: 02/14/07 at 10:38:48 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
    3     ** Begun on: 02/14/07 at 09:45:44 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_TEST7_V007.INP;2
   62     ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   72     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.BIN;1
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   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
 1772     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773     CPU Time (total for run) = 20.09 sec = 0.00558 hr
 1774    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 22.28 sec = 0.00619 hr
 1774    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
 2450     Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:20.10 ( 20.10 sec) ASCII
 2452     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:39:08 CPU Time: 0 0: 0:20.11 ( 20.11 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
 2456     Date: 02/14/07 Time: 10:39:09 CPU Time: 0 0: 0:21.03 ( 21.03 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 6.773075E+00 days
 2459     Date: 02/14/07 Time: 10:39:12 CPU Time: 0 0: 0:24.10 ( 24.10 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.856436E+02 days
 2462     Date: 02/14/07 Time: 10:39:15 CPU Time: 0 0: 0:27.34 ( 27.34 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.266587E+03 days
 2465     Date: 02/14/07 Time: 10:39:20 CPU Time: 0 0: 0:32.30 ( 32.30 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.223245E+04 days
 2468     Date: 02/14/07 Time: 10:39:26 CPU Time: 0 0: 0:37.57 ( 37.57 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652431E+04 days
 2471     Date: 02/14/07 Time: 10:39:38 CPU Time: 0 0: 0:49.48 ( 49.48 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.652431E+04 days
 2474     Date: 02/14/07 Time: 10:39:40 CPU Time: 0 0: 0:51.85 ( 51.85 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652431E+04 days
 2477     Date: 02/14/07 Time: 10:39:43 CPU Time: 0 0: 0:54.34 ( 54.34 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.652448E+04 days
 2480     Date: 02/14/07 Time: 10:39:45 CPU Time: 0 0: 0:57.19 ( 57.19 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.653947E+04 days
 2483     Date: 02/14/07 Time: 10:39:48 CPU Time: 0 0: 0:59.99 ( 59.99 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.666343E+04 days
 2486     Date: 02/14/07 Time: 10:39:51 CPU Time: 0 0: 1: 2.49 ( 62.49 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.669537E+04 days
 2489     Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 1: 4.65 ( 64.65 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.742515E+04 days
 2492     Date: 02/14/07 Time: 10:39:57 CPU Time: 0 0: 1: 8.75 ( 68.75 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.822089E+04 days
 2495     Date: 02/14/07 Time: 10:40:04 CPU Time: 0 0: 1:15.91 ( 75.91 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 8.862956E+04 days
 2498     Date: 02/14/07 Time: 10:40:09 CPU Time: 0 0: 1:21.20 ( 81.20 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.455379E+05 days
 2501     Date: 02/14/07 Time: 10:40:18 CPU Time: 0 0: 1:29.35 ( 89.35 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 3.652522E+05 days
 2504     Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 1:33.11 ( 93.11 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 3.654410E+05 days
 2507     Date: 02/14/07 Time: 10:40:26 CPU Time: 0 0: 1:37.09 ( 97.09 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 3.666131E+05 days
 2510     Date: 02/14/07 Time: 10:40:29 CPU Time: 0 0: 1:40.55 ( 100.55 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 3.666386E+05 days
 2513     Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 1:42.04 ( 102.04 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 3.688548E+05 days
 2516     Date: 02/14/07 Time: 10:40:34 CPU Time: 0 0: 1:45.30 ( 105.30 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 4.082584E+05 days
 2519     Date: 02/14/07 Time: 10:40:41 CPU Time: 0 0: 1:52.30 ( 112.30 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 4.458639E+05 days
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 2522     Date: 02/14/07 Time: 10:40:50 CPU Time: 0 0: 2: 0.58 ( 120.58 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 4.463537E+05 days
 2525     Date: 02/14/07 Time: 10:40:54 CPU Time: 0 0: 2: 5.37 ( 125.37 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 4.480015E+05 days
 2528     Date: 02/14/07 Time: 10:40:58 CPU Time: 0 0: 2: 8.98 ( 128.98 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 4.604332E+05 days
 2531     Date: 02/14/07 Time: 10:41:04 CPU Time: 0 0: 2:14.63 ( 134.63 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 4.725391E+05 days
 2534     Date: 02/14/07 Time: 10:41:08 CPU Time: 0 0: 2:18.80 ( 138.80 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 6.319950E+05 days
 2537     Date: 02/14/07 Time: 10:41:15 CPU Time: 0 0: 2:26.16 ( 146.16 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 6.358626E+05 days
 2540     Date: 02/14/07 Time: 10:41:20 CPU Time: 0 0: 2:31.07 ( 151.07 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 6.368313E+05 days
 2543     Date: 02/14/07 Time: 10:41:25 CPU Time: 0 0: 2:35.98 ( 155.98 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 6.464683E+05 days
 2546     Date: 02/14/07 Time: 10:41:29 CPU Time: 0 0: 2:40.32 ( 160.32 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 7.290303E+05 days
 2549     Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 2:46.09 ( 166.09 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 7.323189E+05 days
 2552     Date: 02/14/07 Time: 10:41:40 CPU Time: 0 0: 2:51.00 ( 171.00 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 7.329267E+05 days
 2555     Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 2:54.20 ( 174.20 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 7.803047E+05 days
 2558     Date: 02/14/07 Time: 10:41:48 CPU Time: 0 0: 2:59.06 ( 179.06 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 7.839760E+05 days
 2561     Date: 02/14/07 Time: 10:41:53 CPU Time: 0 0: 3: 3.96 ( 183.96 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 8.012233E+05 days
 2564     Date: 02/14/07 Time: 10:42:00 CPU Time: 0 0: 3:10.66 ( 190.66 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 8.034431E+05 days
 2567     Date: 02/14/07 Time: 10:42:06 CPU Time: 0 0: 3:16.94 ( 196.94 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 8.062402E+05 days
 2570     Date: 02/14/07 Time: 10:42:11 CPU Time: 0 0: 3:21.78 ( 201.78 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.139864E+05 days
 2573     Date: 02/14/07 Time: 10:42:18 CPU Time: 0 0: 3:28.15 ( 208.15 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 8.431727E+05 days
 2576     Date: 02/14/07 Time: 10:42:25 CPU Time: 0 0: 3:35.28 ( 215.28 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 8.666810E+05 days
 2579     Date: 02/14/07 Time: 10:42:33 CPU Time: 0 0: 3:43.47 ( 223.47 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.821825E+05 days
 2582     Date: 02/14/07 Time: 10:42:38 CPU Time: 0 0: 3:48.02 ( 228.02 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
 2585     Date: 02/14/07 Time: 10:42:44 CPU Time: 0 0: 3:54.09 ( 234.09 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
 2588     Date: 02/14/07 Time: 10:42:49 CPU Time: 0 0: 3:59.82 ( 239.82 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
 2591     Date: 02/14/07 Time: 10:42:57 CPU Time: 0 0: 4: 6.89 ( 246.89 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
 2594     Date: 02/14/07 Time: 10:43:01 CPU Time: 0 0: 4:11.24 ( 251.24 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
 2597     Date: 02/14/07 Time: 10:43:08 CPU Time: 0 0: 4:17.96 ( 257.96 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
 2600     Date: 02/14/07 Time: 10:43:13 CPU Time: 0 0: 4:23.36 ( 263.36 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
 2603     Date: 02/14/07 Time: 10:43:23 CPU Time: 0 0: 4:33.17 ( 273.17 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
 2606     Date: 02/14/07 Time: 10:43:30 CPU Time: 0 0: 4:39.69 ( 279.69 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
 2609     Date: 02/14/07 Time: 10:43:38 CPU Time: 0 0: 4:48.35 ( 288.35 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
 2612     Date: 02/14/07 Time: 10:43:46 CPU Time: 0 0: 4:55.99 ( 295.99 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
 2615     Date: 02/14/07 Time: 10:43:54 CPU Time: 0 0: 5: 4.56 ( 304.56 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
 2618     Date: 02/14/07 Time: 10:43:59 CPU Time: 0 0: 5: 9.24 ( 309.24 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
 2621     Date: 02/14/07 Time: 10:44:04 CPU Time: 0 0: 5:14.20 ( 314.20 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
 2624     Date: 02/14/07 Time: 10:44:09 CPU Time: 0 0: 5:19.50 ( 319.50 sec) Binary
 2627     Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 2450     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.29 ( 22.29 sec) ASCII
 2452     Time Step No. = 135 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:46:07 CPU Time: 0 0: 0:22.30 ( 22.30 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 8.207031E-02 days
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2456   Date: 02/14/07 Time: 09:46:08 CPU Time: 0 0: 0:23.32 ( 23.32 sec) Binary
2458   Time Step No. = 160 Elapsed Time = 6.773075E+00 days
2459   Date: 02/14/07 Time: 09:46:11 CPU Time: 0 0: 0:26.72 ( 26.72 sec) Binary
2461   Time Step No. = 180 Elapsed Time = 1.856436E+02 days
2462   Date: 02/14/07 Time: 09:46:15 CPU Time: 0 0: 0:30.53 ( 30.53 sec) Binary
2464   Time Step No. = 200 Elapsed Time = 1.266587E+03 days
2465   Date: 02/14/07 Time: 09:46:21 CPU Time: 0 0: 0:36.63 ( 36.63 sec) Binary
2467   Time Step No. = 220 Elapsed Time = 1.223245E+04 days
2468   Date: 02/14/07 Time: 09:46:28 CPU Time: 0 0: 0:43.00 ( 43.00 sec) Binary
2470   Time Step No. = 240 Elapsed Time = 3.652431E+04 days
2471   Date: 02/14/07 Time: 09:46:42 CPU Time: 0 0: 0:57.56 ( 57.56 sec) Binary
2473   Time Step No. = 260 Elapsed Time = 3.652431E+04 days
2474   Date: 02/14/07 Time: 09:46:45 CPU Time: 0 0: 1: 0.49 ( 60.49 sec) Binary
2476   Time Step No. = 280 Elapsed Time = 3.652431E+04 days
2477   Date: 02/14/07 Time: 09:46:48 CPU Time: 0 0: 1: 3.56 ( 63.56 sec) Binary
2479   Time Step No. = 300 Elapsed Time = 3.652448E+04 days
2480   Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 1: 7.05 ( 67.05 sec) Binary
2482   Time Step No. = 320 Elapsed Time = 3.653947E+04 days
2483   Date: 02/14/07 Time: 09:46:55 CPU Time: 0 0: 1:10.48 ( 70.48 sec) Binary
2485   Time Step No. = 340 Elapsed Time = 3.666343E+04 days
2486   Date: 02/14/07 Time: 09:46:58 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
2488   Time Step No. = 360 Elapsed Time = 3.669537E+04 days
2489   Date: 02/14/07 Time: 09:47:01 CPU Time: 0 0: 1:16.20 ( 76.20 sec) Binary
2491   Time Step No. = 380 Elapsed Time = 3.742515E+04 days
2492   Date: 02/14/07 Time: 09:47:06 CPU Time: 0 0: 1:21.20 ( 81.20 sec) Binary
2494   Time Step No. = 400 Elapsed Time = 3.822089E+04 days
2495   Date: 02/14/07 Time: 09:47:15 CPU Time: 0 0: 1:29.92 ( 89.92 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 8.862956E+04 days
2498   Date: 02/14/07 Time: 09:47:21 CPU Time: 0 0: 1:36.35 ( 96.35 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 3.455379E+05 days
2501   Date: 02/14/07 Time: 09:47:31 CPU Time: 0 0: 1:46.27 ( 106.27 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 3.652522E+05 days
2504   Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:50.87 ( 110.87 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 3.654410E+05 days
2507   Date: 02/14/07 Time: 09:47:41 CPU Time: 0 0: 1:55.75 ( 115.75 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 3.666131E+05 days
2510   Date: 02/14/07 Time: 09:47:45 CPU Time: 0 0: 2: 0.01 ( 120.01 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 3.666386E+05 days
2513   Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 2: 1.83 ( 121.83 sec) Binary
2515   Time Step No. = 540 Elapsed Time = 3.688548E+05 days
2516   Date: 02/14/07 Time: 09:47:51 CPU Time: 0 0: 2: 5.81 ( 125.81 sec) Binary
2518   Time Step No. = 560 Elapsed Time = 4.082584E+05 days
2519   Date: 02/14/07 Time: 09:48:00 CPU Time: 0 0: 2:14.35 ( 134.35 sec) Binary
2521   Time Step No. = 580 Elapsed Time = 4.458639E+05 days
2522   Date: 02/14/07 Time: 09:48:10 CPU Time: 0 0: 2:24.44 ( 144.44 sec) Binary
2524   Time Step No. = 600 Elapsed Time = 4.463537E+05 days
2525   Date: 02/14/07 Time: 09:48:16 CPU Time: 0 0: 2:30.28 ( 150.28 sec) Binary
2527   Time Step No. = 620 Elapsed Time = 4.480015E+05 days
2528   Date: 02/14/07 Time: 09:48:20 CPU Time: 0 0: 2:34.67 ( 154.67 sec) Binary
2530   Time Step No. = 640 Elapsed Time = 4.604332E+05 days
2531   Date: 02/14/07 Time: 09:48:27 CPU Time: 0 0: 2:41.58 ( 161.58 sec) Binary
2533   Time Step No. = 660 Elapsed Time = 4.725391E+05 days
2534   Date: 02/14/07 Time: 09:48:32 CPU Time: 0 0: 2:46.68 ( 166.68 sec) Binary
2536   Time Step No. = 680 Elapsed Time = 6.319950E+05 days
2537   Date: 02/14/07 Time: 09:48:41 CPU Time: 0 0: 2:55.64 ( 175.64 sec) Binary
2539   Time Step No. = 700 Elapsed Time = 6.358626E+05 days
2540   Date: 02/14/07 Time: 09:48:47 CPU Time: 0 0: 3: 1.65 ( 181.65 sec) Binary
2542   Time Step No. = 720 Elapsed Time = 6.368313E+05 days
2543   Date: 02/14/07 Time: 09:48:53 CPU Time: 0 0: 3: 7.61 ( 187.61 sec) Binary
2545   Time Step No. = 740 Elapsed Time = 6.464683E+05 days
2546   Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 3:12.92 ( 192.92 sec) Binary
2548   Time Step No. = 760 Elapsed Time = 7.290303E+05 days
2549   Date: 02/14/07 Time: 09:49:05 CPU Time: 0 0: 3:19.95 ( 199.95 sec) Binary
2551   Time Step No. = 780 Elapsed Time = 7.323189E+05 days
2552   Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 3:25.94 ( 205.94 sec) Binary
2554   Time Step No. = 800 Elapsed Time = 7.329267E+05 days
2555   Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3:29.84 ( 209.84 sec) Binary
2557   Time Step No. = 820 Elapsed Time = 7.803047E+05 days
2558   Date: 02/14/07 Time: 09:49:21 CPU Time: 0 0: 3:35.71 ( 215.71 sec) Binary
2560   Time Step No. = 840 Elapsed Time = 7.839760E+05 days
2561   Date: 02/14/07 Time: 09:49:27 CPU Time: 0 0: 3:41.70 ( 221.70 sec) Binary
2563   Time Step No. = 860 Elapsed Time = 8.012233E+05 days
2564   Date: 02/14/07 Time: 09:49:36 CPU Time: 0 0: 3:49.87 ( 229.87 sec) Binary
2566   Time Step No. = 880 Elapsed Time = 8.034431E+05 days
2567   Date: 02/14/07 Time: 09:49:43 CPU Time: 0 0: 3:57.52 ( 237.52 sec) Binary
2569   Time Step No. = 900 Elapsed Time = 8.062402E+05 days
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 2570     Date: 02/14/07 Time: 09:49:49 CPU Time: 0 0: 4: 3.44 ( 243.44 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.139864E+05 days
 2573     Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 4:11.24 ( 251.24 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 8.431727E+05 days
 2576     Date: 02/14/07 Time: 09:50:06 CPU Time: 0 0: 4:19.95 ( 259.95 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 8.666810E+05 days
 2579     Date: 02/14/07 Time: 09:50:16 CPU Time: 0 0: 4:29.98 ( 269.98 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.821825E+05 days
 2582     Date: 02/14/07 Time: 09:50:22 CPU Time: 0 0: 4:35.57 ( 275.57 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 9.002182E+05 days
 2585     Date: 02/14/07 Time: 09:50:29 CPU Time: 0 0: 4:42.92 ( 282.92 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 9.481091E+05 days
 2588     Date: 02/14/07 Time: 09:50:36 CPU Time: 0 0: 4:49.87 ( 289.87 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.057089E+06 days
 2591     Date: 02/14/07 Time: 09:50:45 CPU Time: 0 0: 4:58.48 ( 298.48 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.124317E+06 days
 2594     Date: 02/14/07 Time: 09:50:50 CPU Time: 0 0: 5: 3.74 ( 303.74 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.392966E+06 days
 2597     Date: 02/14/07 Time: 09:50:58 CPU Time: 0 0: 5:11.91 ( 311.91 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.621571E+06 days
 2600     Date: 02/14/07 Time: 09:51:05 CPU Time: 0 0: 5:18.52 ( 318.52 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.784068E+06 days
 2603     Date: 02/14/07 Time: 09:51:17 CPU Time: 0 0: 5:30.45 ( 330.45 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.895820E+06 days
 2606     Date: 02/14/07 Time: 09:51:25 CPU Time: 0 0: 5:38.36 ( 338.36 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.978849E+06 days
 2609     Date: 02/14/07 Time: 09:51:35 CPU Time: 0 0: 5:48.86 ( 348.86 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.136165E+06 days
 2612     Date: 02/14/07 Time: 09:51:45 CPU Time: 0 0: 5:58.18 ( 358.18 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.233567E+06 days
 2615     Date: 02/14/07 Time: 09:51:55 CPU Time: 0 0: 6: 8.59 ( 368.59 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.507403E+06 days
 2618     Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 6:14.28 ( 374.28 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.907403E+06 days
 2621     Date: 02/14/07 Time: 09:52:07 CPU Time: 0 0: 6:20.35 ( 380.35 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 3.307403E+06 days
 2624     Date: 02/14/07 Time: 09:52:13 CPU Time: 0 0: 6:26.82 ( 386.82 sec) Binary
 2627     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
 2643     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2644     CPU Time (total for run) = 323.89 sec = 0.08997 hr
 2645    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 2643     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2644     CPU Time (total for run) = 392.16 sec = 0.10893 hr
 2645    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1
 3321     Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 5:23.91 ( 323.91 sec) ASCII
 3323     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3324     Date: 02/14/07 Time: 10:44:14 CPU Time: 0 0: 5:23.91 ( 323.91 sec) Binary
 3329     ******************************************************************************
 3330     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3331     * Completed: 02/14/07 at 10:44:14 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3332     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1
 3321     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.18 ( 392.18 sec) ASCII
 3323     Time Step No. = 1278 Elapsed Time = 3.652431E+06 days
 3324     Date: 02/14/07 Time: 09:52:19 CPU Time: 0 0: 6:32.19 ( 392.19 sec) Binary
 3329     ******************************************************************************
 3330     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3331     * Completed: 02/14/07 at 09:52:19 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3332     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 134

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES45_TEST7_V007.OUT;1-
```

PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V007]BF2_QB0600_ES47_TEST7_V007.OUT;1

BF2_QB0600_ES45_TEST7_V008_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
    3      ** Begun on: 02/14/07 at 10:39:23 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
    3      ** Begun on: 02/14/07 at 09:46:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4      ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
   62      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_TEST7_V008.INP;2
   62      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_CLOSURE.DAT;1
   67      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_CLOSURE.DAT;1
   67      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   72      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   72      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.SUM;1
   77      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.SUM;1
   77      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.BIN;1
   82      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.BIN;1
   82      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.ROT;1
   87      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.ROT;1
   87      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
 1772      CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773      CPU Time (total for run) = 29.53 sec = 0.00820 hr
 1774      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
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 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 32.61 sec = 0.00906 hr
 1774     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
 2450     Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 0:29.54 ( 29.54 sec) ASCII
 2452     Time Step No. = 176 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:39:53 CPU Time: 0 0: 0:29.55 ( 29.55 sec) Binary
 2455     Time Step No. = 180 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 10:39:55 CPU Time: 0 0: 0:31.43 ( 31.43 sec) Binary
 2458     Time Step No. = 200 Elapsed Time = 1.053791E+00 days
 2459     Date: 02/14/07 Time: 10:39:58 CPU Time: 0 0: 0:34.41 ( 34.41 sec) Binary
 2461     Time Step No. = 220 Elapsed Time = 9.183050E+01 days
 2462     Date: 02/14/07 Time: 10:40:02 CPU Time: 0 0: 0:38.42 ( 38.42 sec) Binary
 2464     Time Step No. = 240 Elapsed Time = 2.153105E+03 days
 2465     Date: 02/14/07 Time: 10:40:07 CPU Time: 0 0: 0:43.55 ( 43.55 sec) Binary
 2467     Time Step No. = 260 Elapsed Time = 5.087922E+03 days
 2468     Date: 02/14/07 Time: 10:40:12 CPU Time: 0 0: 0:48.24 ( 48.24 sec) Binary
 2470     Time Step No. = 280 Elapsed Time = 1.243792E+04 days
 2471     Date: 02/14/07 Time: 10:40:18 CPU Time: 0 0: 0:54.27 ( 54.27 sec) Binary
 2473     Time Step No. = 300 Elapsed Time = 1.314808E+04 days
 2474     Date: 02/14/07 Time: 10:40:21 CPU Time: 0 0: 0:57.49 ( 57.49 sec) Binary
 2476     Time Step No. = 320 Elapsed Time = 1.875956E+04 days
 2477     Date: 02/14/07 Time: 10:40:27 CPU Time: 0 0: 1: 3.06 ( 63.06 sec) Binary
 2479     Time Step No. = 340 Elapsed Time = 3.652769E+04 days
 2480     Date: 02/14/07 Time: 10:40:31 CPU Time: 0 0: 1: 7.98 ( 67.98 sec) Binary
 2482     Time Step No. = 360 Elapsed Time = 3.666039E+04 days
 2483     Date: 02/14/07 Time: 10:40:36 CPU Time: 0 0: 1:12.14 ( 72.14 sec) Binary
 2485     Time Step No. = 380 Elapsed Time = 3.666877E+04 days
 2486     Date: 02/14/07 Time: 10:40:38 CPU Time: 0 0: 1:13.84 ( 73.84 sec) Binary
 2488     Time Step No. = 400 Elapsed Time = 3.739498E+04 days
 2489     Date: 02/14/07 Time: 10:40:41 CPU Time: 0 0: 1:17.01 ( 77.01 sec) Binary
 2491     Time Step No. = 420 Elapsed Time = 5.109122E+04 days
 2492     Date: 02/14/07 Time: 10:40:48 CPU Time: 0 0: 1:23.69 ( 83.69 sec) Binary
 2494     Time Step No. = 440 Elapsed Time = 5.170121E+04 days
 2495     Date: 02/14/07 Time: 10:40:56 CPU Time: 0 0: 1:32.26 ( 92.26 sec) Binary
 2497     Time Step No. = 460 Elapsed Time = 5.298682E+04 days
 2498     Date: 02/14/07 Time: 10:41:02 CPU Time: 0 0: 1:37.67 ( 97.67 sec) Binary
 2500     Time Step No. = 480 Elapsed Time = 7.084490E+04 days
 2501     Date: 02/14/07 Time: 10:41:06 CPU Time: 0 0: 1:41.90 ( 101.90 sec) Binary
 2503     Time Step No. = 500 Elapsed Time = 8.094102E+04 days
 2504     Date: 02/14/07 Time: 10:41:13 CPU Time: 0 0: 1:48.82 ( 108.82 sec) Binary
 2506     Time Step No. = 520 Elapsed Time = 8.631599E+04 days
 2507     Date: 02/14/07 Time: 10:41:18 CPU Time: 0 0: 1:54.56 ( 114.56 sec) Binary
 2509     Time Step No. = 540 Elapsed Time = 8.786148E+04 days
 2510     Date: 02/14/07 Time: 10:41:22 CPU Time: 0 0: 1:57.67 ( 117.67 sec) Binary
 2512     Time Step No. = 560 Elapsed Time = 1.041757E+05 days
 2513     Date: 02/14/07 Time: 10:41:28 CPU Time: 0 0: 2: 3.70 ( 123.70 sec) Binary
 2515     Time Step No. = 580 Elapsed Time = 1.043219E+05 days
 2516     Date: 02/14/07 Time: 10:41:35 CPU Time: 0 0: 2:10.68 ( 130.68 sec) Binary
 2518     Time Step No. = 600 Elapsed Time = 1.044755E+05 days
 2519     Date: 02/14/07 Time: 10:41:38 CPU Time: 0 0: 2:13.77 ( 133.77 sec) Binary
 2521     Time Step No. = 620 Elapsed Time = 1.065997E+05 days
 2522     Date: 02/14/07 Time: 10:41:44 CPU Time: 0 0: 2:19.70 ( 139.70 sec) Binary
 2524     Time Step No. = 640 Elapsed Time = 1.295978E+05 days
 2525     Date: 02/14/07 Time: 10:41:51 CPU Time: 0 0: 2:26.95 ( 146.95 sec) Binary
 2527     Time Step No. = 660 Elapsed Time = 1.484872E+05 days
 2528     Date: 02/14/07 Time: 10:41:58 CPU Time: 0 0: 2:33.85 ( 153.85 sec) Binary
 2530     Time Step No. = 680 Elapsed Time = 1.485303E+05 days
 2531     Date: 02/14/07 Time: 10:42:03 CPU Time: 0 0: 2:38.77 ( 158.77 sec) Binary
 2533     Time Step No. = 700 Elapsed Time = 1.493933E+05 days
 2534     Date: 02/14/07 Time: 10:42:07 CPU Time: 0 0: 2:42.36 ( 162.36 sec) Binary
 2536     Time Step No. = 720 Elapsed Time = 1.593167E+05 days
 2537     Date: 02/14/07 Time: 10:42:12 CPU Time: 0 0: 2:47.75 ( 167.75 sec) Binary
 2539     Time Step No. = 740 Elapsed Time = 2.099806E+05 days
 2540     Date: 02/14/07 Time: 10:42:20 CPU Time: 0 0: 2:56.05 ( 176.05 sec) Binary
 2542     Time Step No. = 760 Elapsed Time = 2.105719E+05 days
 2543     Date: 02/14/07 Time: 10:42:26 CPU Time: 0 0: 3: 1.32 ( 181.32 sec) Binary
 2545     Time Step No. = 780 Elapsed Time = 2.202234E+05 days
 2546     Date: 02/14/07 Time: 10:42:29 CPU Time: 0 0: 3: 5.12 ( 185.12 sec) Binary
 2548     Time Step No. = 800 Elapsed Time = 3.150363E+05 days
 2549     Date: 02/14/07 Time: 10:42:35 CPU Time: 0 0: 3:11.05 ( 191.05 sec) Binary
 2551     Time Step No. = 820 Elapsed Time = 3.629194E+05 days
 2552     Date: 02/14/07 Time: 10:42:44 CPU Time: 0 0: 3:19.46 ( 199.46 sec) Binary
 2554     Time Step No. = 840 Elapsed Time = 3.652535E+05 days
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2555   Date: 02/14/07 Time: 10:42:51 CPU Time: 0 0: 3:26.38 ( 206.38 sec) Binary
2557   Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558   Date: 02/14/07 Time: 10:42:56 CPU Time: 0 0: 3:31.41 ( 211.41 sec) Binary
2560   Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561   Date: 02/14/07 Time: 10:43:02 CPU Time: 0 0: 3:37.86 ( 217.86 sec) Binary
2563   Time Step No. = 900 Elapsed Time = 3.658270E+05 days
2564   Date: 02/14/07 Time: 10:43:06 CPU Time: 0 0: 3:41.71 ( 221.71 sec) Binary
2566   Time Step No. = 920 Elapsed Time = 3.666406E+05 days
2567   Date: 02/14/07 Time: 10:43:09 CPU Time: 0 0: 3:44.05 ( 224.05 sec) Binary
2569   Time Step No. = 940 Elapsed Time = 3.666905E+05 days
2570   Date: 02/14/07 Time: 10:43:10 CPU Time: 0 0: 3:45.57 ( 225.57 sec) Binary
2572   Time Step No. = 960 Elapsed Time = 3.710191E+05 days
2573   Date: 02/14/07 Time: 10:43:14 CPU Time: 0 0: 3:49.19 ( 229.19 sec) Binary
2575   Time Step No. = 980 Elapsed Time = 3.996908E+05 days
2576   Date: 02/14/07 Time: 10:43:21 CPU Time: 0 0: 3:56.32 ( 236.32 sec) Binary
2578   Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
2579   Date: 02/14/07 Time: 10:43:25 CPU Time: 0 0: 4: 0.87 ( 240.87 sec) Binary
2581   Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
2582   Date: 02/14/07 Time: 10:43:33 CPU Time: 0 0: 4: 8.84 ( 248.84 sec) Binary
2584   Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
2585   Date: 02/14/07 Time: 10:43:41 CPU Time: 0 0: 4:16.33 ( 256.33 sec) Binary
2587   Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
2588   Date: 02/14/07 Time: 10:43:50 CPU Time: 0 0: 4:25.59 ( 265.59 sec) Binary
2590   Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
2591   Date: 02/14/07 Time: 10:43:55 CPU Time: 0 0: 4:30.27 ( 270.27 sec) Binary
2593   Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
2594   Date: 02/14/07 Time: 10:44:02 CPU Time: 0 0: 4:37.58 ( 277.58 sec) Binary
2596   Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
2597   Date: 02/14/07 Time: 10:44:08 CPU Time: 0 0: 4:43.67 ( 283.67 sec) Binary
2599   Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
2600   Date: 02/14/07 Time: 10:44:15 CPU Time: 0 0: 4:50.38 ( 290.38 sec) Binary
2602   Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
2603   Date: 02/14/07 Time: 10:44:21 CPU Time: 0 0: 4:56.22 ( 296.22 sec) Binary
2605   Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
2606   Date: 02/14/07 Time: 10:44:29 CPU Time: 0 0: 5: 4.19 ( 304.19 sec) Binary
2608   Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
2609   Date: 02/14/07 Time: 10:44:37 CPU Time: 0 0: 5:12.44 ( 312.44 sec) Binary
2611   Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
2612   Date: 02/14/07 Time: 10:44:44 CPU Time: 0 0: 5:18.99 ( 318.99 sec) Binary
2614   Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
2615   Date: 02/14/07 Time: 10:44:51 CPU Time: 0 0: 5:25.66 ( 325.66 sec) Binary
2617   Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
2618   Date: 02/14/07 Time: 10:44:59 CPU Time: 0 0: 5:34.39 ( 334.39 sec) Binary
2620   Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
2621   Date: 02/14/07 Time: 10:45:04 CPU Time: 0 0: 5:39.35 ( 339.35 sec) Binary
2623   Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
2624   Date: 02/14/07 Time: 10:45:11 CPU Time: 0 0: 5:46.01 ( 346.01 sec) Binary
2626   Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
2627   Date: 02/14/07 Time: 10:45:19 CPU Time: 0 0: 5:53.67 ( 353.67 sec) Binary
2629   Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
2630   Date: 02/14/07 Time: 10:45:25 CPU Time: 0 0: 5:59.51 ( 359.51 sec) Binary
2632   Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
2633   Date: 02/14/07 Time: 10:45:28 CPU Time: 0 0: 6: 2.42 ( 362.42 sec) Binary
2635   Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
2636   Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 6: 9.40 ( 369.40 sec) Binary
2638   Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
2639   Date: 02/14/07 Time: 10:45:38 CPU Time: 0 0: 6:12.63 ( 372.63 sec) Binary
2641   Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
2642   Date: 02/14/07 Time: 10:45:45 CPU Time: 0 0: 6:19.53 ( 379.53 sec) Binary
2644   Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
2645   Date: 02/14/07 Time: 10:45:51 CPU Time: 0 0: 6:25.35 ( 385.35 sec) Binary
2647   Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
2648   Date: 02/14/07 Time: 10:45:54 CPU Time: 0 0: 6:28.93 ( 388.93 sec) Binary
2650   Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
2651   Date: 02/14/07 Time: 10:45:59 CPU Time: 0 0: 6:33.81 ( 393.81 sec) Binary
2653   Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
2654   Date: 02/14/07 Time: 10:46:05 CPU Time: 0 0: 6:39.99 ( 399.99 sec) Binary
2656   Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
2657   Date: 02/14/07 Time: 10:46:10 CPU Time: 0 0: 6:44.68 ( 404.68 sec) Binary
2659   Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
2660   Date: 02/14/07 Time: 10:46:14 CPU Time: 0 0: 6:48.82 ( 408.82 sec) Binary
2662   Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
2663   Date: 02/14/07 Time: 10:46:18 CPU Time: 0 0: 6:52.37 ( 412.37 sec) Binary
2666   Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
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2450    Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) ASCII
2452    Time Step No. = 176 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 09:46:47 CPU Time: 0 0: 0:32.62 ( 32.62 sec) Binary
2455    Time Step No. = 180 Elapsed Time = 7.207031E-03 days
2456    Date: 02/14/07 Time: 09:46:49 CPU Time: 0 0: 0:34.70 ( 34.70 sec) Binary
2458    Time Step No. = 200 Elapsed Time = 1.053791E+00 days
2459    Date: 02/14/07 Time: 09:46:52 CPU Time: 0 0: 0:38.00 ( 38.00 sec) Binary
2461    Time Step No. = 220 Elapsed Time = 9.183050E+01 days
2462    Date: 02/14/07 Time: 09:46:57 CPU Time: 0 0: 0:42.45 ( 42.45 sec) Binary
2464    Time Step No. = 240 Elapsed Time = 2.153105E+03 days
2465    Date: 02/14/07 Time: 09:47:02 CPU Time: 0 0: 0:48.11 ( 48.11 sec) Binary
2467    Time Step No. = 260 Elapsed Time = 5.087922E+03 days
2468    Date: 02/14/07 Time: 09:47:08 CPU Time: 0 0: 0:53.27 ( 53.27 sec) Binary
2470    Time Step No. = 280 Elapsed Time = 1.243792E+04 days
2471    Date: 02/14/07 Time: 09:47:14 CPU Time: 0 0: 0:59.94 ( 59.94 sec) Binary
2473    Time Step No. = 300 Elapsed Time = 1.314808E+04 days
2474    Date: 02/14/07 Time: 09:47:18 CPU Time: 0 0: 1: 3.51 ( 63.51 sec) Binary
2476    Time Step No. = 320 Elapsed Time = 1.875956E+04 days
2477    Date: 02/14/07 Time: 09:47:24 CPU Time: 0 0: 1: 9.66 ( 69.66 sec) Binary
2479    Time Step No. = 340 Elapsed Time = 3.652769E+04 days
2480    Date: 02/14/07 Time: 09:47:29 CPU Time: 0 0: 1:15.10 ( 75.10 sec) Binary
2482    Time Step No. = 360 Elapsed Time = 3.666039E+04 days
2483    Date: 02/14/07 Time: 09:47:34 CPU Time: 0 0: 1:19.71 ( 79.71 sec) Binary
2485    Time Step No. = 380 Elapsed Time = 3.666877E+04 days
2486    Date: 02/14/07 Time: 09:47:36 CPU Time: 0 0: 1:21.59 ( 81.59 sec) Binary
2488    Time Step No. = 400 Elapsed Time = 3.739498E+04 days
2489    Date: 02/14/07 Time: 09:47:40 CPU Time: 0 0: 1:25.10 ( 85.10 sec) Binary
2491    Time Step No. = 420 Elapsed Time = 5.109122E+04 days
2492    Date: 02/14/07 Time: 09:47:47 CPU Time: 0 0: 1:32.48 ( 92.48 sec) Binary
2494    Time Step No. = 440 Elapsed Time = 5.170121E+04 days
2495    Date: 02/14/07 Time: 09:47:56 CPU Time: 0 0: 1:41.94 ( 101.94 sec) Binary
2497    Time Step No. = 460 Elapsed Time = 5.298682E+04 days
2498    Date: 02/14/07 Time: 09:48:02 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
2500    Time Step No. = 480 Elapsed Time = 7.084490E+04 days
2501    Date: 02/14/07 Time: 09:48:07 CPU Time: 0 0: 1:52.56 ( 112.56 sec) Binary
2503    Time Step No. = 500 Elapsed Time = 8.094102E+04 days
2504    Date: 02/14/07 Time: 09:48:15 CPU Time: 0 0: 2: 0.20 ( 120.20 sec) Binary
2506    Time Step No. = 520 Elapsed Time = 8.631599E+04 days
2507    Date: 02/14/07 Time: 09:48:21 CPU Time: 0 0: 2: 6.55 ( 126.55 sec) Binary
2509    Time Step No. = 540 Elapsed Time = 8.786148E+04 days
2510    Date: 02/14/07 Time: 09:48:25 CPU Time: 0 0: 2: 9.99 ( 129.99 sec) Binary
2512    Time Step No. = 560 Elapsed Time = 1.041757E+05 days
2513    Date: 02/14/07 Time: 09:48:31 CPU Time: 0 0: 2:16.66 ( 136.66 sec) Binary
2515    Time Step No. = 580 Elapsed Time = 1.043219E+05 days
2516    Date: 02/14/07 Time: 09:48:39 CPU Time: 0 0: 2:24.39 ( 144.39 sec) Binary
2518    Time Step No. = 600 Elapsed Time = 1.044755E+05 days
2519    Date: 02/14/07 Time: 09:48:43 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
2521    Time Step No. = 620 Elapsed Time = 1.065997E+05 days
2522    Date: 02/14/07 Time: 09:48:50 CPU Time: 0 0: 2:35.09 ( 155.09 sec) Binary
2524    Time Step No. = 640 Elapsed Time = 1.295978E+05 days
2525    Date: 02/14/07 Time: 09:48:58 CPU Time: 0 0: 2:43.67 ( 163.67 sec) Binary
2527    Time Step No. = 660 Elapsed Time = 1.484872E+05 days
2528    Date: 02/14/07 Time: 09:49:06 CPU Time: 0 0: 2:51.84 ( 171.84 sec) Binary
2530    Time Step No. = 680 Elapsed Time = 1.485303E+05 days
2531    Date: 02/14/07 Time: 09:49:12 CPU Time: 0 0: 2:57.41 ( 177.41 sec) Binary
2533    Time Step No. = 700 Elapsed Time = 1.493933E+05 days
2534    Date: 02/14/07 Time: 09:49:16 CPU Time: 0 0: 3: 1.41 ( 181.41 sec) Binary
2536    Time Step No. = 720 Elapsed Time = 1.593167E+05 days
2537    Date: 02/14/07 Time: 09:49:22 CPU Time: 0 0: 3: 7.32 ( 187.32 sec) Binary
2539    Time Step No. = 740 Elapsed Time = 2.099806E+05 days
2540    Date: 02/14/07 Time: 09:49:31 CPU Time: 0 0: 3:16.43 ( 196.43 sec) Binary
2542    Time Step No. = 760 Elapsed Time = 2.105719E+05 days
2543    Date: 02/14/07 Time: 09:49:37 CPU Time: 0 0: 3:22.20 ( 202.20 sec) Binary
2545    Time Step No. = 780 Elapsed Time = 2.202234E+05 days
2546    Date: 02/14/07 Time: 09:49:41 CPU Time: 0 0: 3:26.39 ( 206.39 sec) Binary
2548    Time Step No. = 800 Elapsed Time = 3.150363E+05 days
2549    Date: 02/14/07 Time: 09:49:48 CPU Time: 0 0: 3:32.85 ( 212.85 sec) Binary
2551    Time Step No. = 820 Elapsed Time = 3.629194E+05 days
2552    Date: 02/14/07 Time: 09:49:57 CPU Time: 0 0: 3:42.09 ( 222.09 sec) Binary
2554    Time Step No. = 840 Elapsed Time = 3.652535E+05 days
2555    Date: 02/14/07 Time: 09:50:04 CPU Time: 0 0: 3:49.64 ( 229.64 sec) Binary
2557    Time Step No. = 860 Elapsed Time = 3.653114E+05 days
2558    Date: 02/14/07 Time: 09:50:10 CPU Time: 0 0: 3:55.16 ( 235.16 sec) Binary
2560    Time Step No. = 880 Elapsed Time = 3.653632E+05 days
2561    Date: 02/14/07 Time: 09:50:17 CPU Time: 0 0: 4: 2.23 ( 242.23 sec) Binary
2563    Time Step No. = 900 Elapsed Time = 3.658270E+05 days
```

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 2564     Date: 02/14/07 Time: 09:50:21 CPU Time: 0 0: 4: 6.46 ( 246.46 sec) Binary
 2566     Time Step No. = 920 Elapsed Time = 3.666406E+05 days
 2567     Date: 02/14/07 Time: 09:50:24 CPU Time: 0 0: 4: 9.04 ( 249.04 sec) Binary
 2569     Time Step No. = 940 Elapsed Time = 3.666905E+05 days
 2570     Date: 02/14/07 Time: 09:50:26 CPU Time: 0 0: 4:10.71 ( 250.71 sec) Binary
 2572     Time Step No. = 960 Elapsed Time = 3.710191E+05 days
 2573     Date: 02/14/07 Time: 09:50:30 CPU Time: 0 0: 4:14.70 ( 254.70 sec) Binary
 2575     Time Step No. = 980 Elapsed Time = 3.996908E+05 days
 2576     Date: 02/14/07 Time: 09:50:37 CPU Time: 0 0: 4:22.52 ( 262.52 sec) Binary
 2578     Time Step No. = 1000 Elapsed Time = 4.303223E+05 days
 2579     Date: 02/14/07 Time: 09:50:42 CPU Time: 0 0: 4:27.53 ( 267.53 sec) Binary
 2581     Time Step No. = 1020 Elapsed Time = 4.969452E+05 days
 2582     Date: 02/14/07 Time: 09:50:51 CPU Time: 0 0: 4:36.26 ( 276.26 sec) Binary
 2584     Time Step No. = 1040 Elapsed Time = 5.110604E+05 days
 2585     Date: 02/14/07 Time: 09:50:59 CPU Time: 0 0: 4:44.48 ( 284.48 sec) Binary
 2587     Time Step No. = 1060 Elapsed Time = 7.111569E+05 days
 2588     Date: 02/14/07 Time: 09:51:10 CPU Time: 0 0: 4:54.62 ( 294.62 sec) Binary
 2590     Time Step No. = 1080 Elapsed Time = 7.246704E+05 days
 2591     Date: 02/14/07 Time: 09:51:15 CPU Time: 0 0: 4:59.77 ( 299.77 sec) Binary
 2593     Time Step No. = 1100 Elapsed Time = 7.854601E+05 days
 2594     Date: 02/14/07 Time: 09:51:23 CPU Time: 0 0: 5: 7.80 ( 307.80 sec) Binary
 2596     Time Step No. = 1120 Elapsed Time = 7.901528E+05 days
 2597     Date: 02/14/07 Time: 09:51:30 CPU Time: 0 0: 5:14.48 ( 314.48 sec) Binary
 2599     Time Step No. = 1140 Elapsed Time = 8.541211E+05 days
 2600     Date: 02/14/07 Time: 09:51:37 CPU Time: 0 0: 5:21.81 ( 321.81 sec) Binary
 2602     Time Step No. = 1160 Elapsed Time = 8.709685E+05 days
 2603     Date: 02/14/07 Time: 09:51:43 CPU Time: 0 0: 5:28.16 ( 328.16 sec) Binary
 2605     Time Step No. = 1180 Elapsed Time = 9.290932E+05 days
 2606     Date: 02/14/07 Time: 09:51:52 CPU Time: 0 0: 5:36.94 ( 336.94 sec) Binary
 2608     Time Step No. = 1200 Elapsed Time = 9.435530E+05 days
 2609     Date: 02/14/07 Time: 09:52:01 CPU Time: 0 0: 5:46.00 ( 346.00 sec) Binary
 2611     Time Step No. = 1220 Elapsed Time = 9.561082E+05 days
 2612     Date: 02/14/07 Time: 09:52:08 CPU Time: 0 0: 5:53.21 ( 353.21 sec) Binary
 2614     Time Step No. = 1240 Elapsed Time = 9.627294E+05 days
 2615     Date: 02/14/07 Time: 09:52:16 CPU Time: 0 0: 6: 0.55 ( 360.55 sec) Binary
 2617     Time Step No. = 1260 Elapsed Time = 9.692275E+05 days
 2618     Date: 02/14/07 Time: 09:52:25 CPU Time: 0 0: 6:10.21 ( 370.21 sec) Binary
 2620     Time Step No. = 1280 Elapsed Time = 9.817318E+05 days
 2621     Date: 02/14/07 Time: 09:52:31 CPU Time: 0 0: 6:15.94 ( 375.94 sec) Binary
 2623     Time Step No. = 1300 Elapsed Time = 1.000743E+06 days
 2624     Date: 02/14/07 Time: 09:52:39 CPU Time: 0 0: 6:23.60 ( 383.60 sec) Binary
 2626     Time Step No. = 1320 Elapsed Time = 1.009513E+06 days
 2627     Date: 02/14/07 Time: 09:52:48 CPU Time: 0 0: 6:32.43 ( 392.43 sec) Binary
 2629     Time Step No. = 1340 Elapsed Time = 1.018276E+06 days
 2630     Date: 02/14/07 Time: 09:52:54 CPU Time: 0 0: 6:39.16 ( 399.16 sec) Binary
 2632     Time Step No. = 1360 Elapsed Time = 1.025094E+06 days
 2633     Date: 02/14/07 Time: 09:52:58 CPU Time: 0 0: 6:42.55 ( 402.55 sec) Binary
 2635     Time Step No. = 1380 Elapsed Time = 1.066575E+06 days
 2636     Date: 02/14/07 Time: 09:53:06 CPU Time: 0 0: 6:50.59 ( 410.59 sec) Binary
 2638     Time Step No. = 1400 Elapsed Time = 1.078881E+06 days
 2639     Date: 02/14/07 Time: 09:53:10 CPU Time: 0 0: 6:54.29 ( 414.29 sec) Binary
 2641     Time Step No. = 1420 Elapsed Time = 1.161020E+06 days
 2642     Date: 02/14/07 Time: 09:53:18 CPU Time: 0 0: 7: 2.22 ( 422.22 sec) Binary
 2644     Time Step No. = 1440 Elapsed Time = 1.265422E+06 days
 2645     Date: 02/14/07 Time: 09:53:24 CPU Time: 0 0: 7: 8.96 ( 428.96 sec) Binary
 2647     Time Step No. = 1460 Elapsed Time = 1.472580E+06 days
 2648     Date: 02/14/07 Time: 09:53:28 CPU Time: 0 0: 7:13.09 ( 433.09 sec) Binary
 2650     Time Step No. = 1480 Elapsed Time = 1.872580E+06 days
 2651     Date: 02/14/07 Time: 09:53:34 CPU Time: 0 0: 7:18.70 ( 438.70 sec) Binary
 2653     Time Step No. = 1500 Elapsed Time = 2.099689E+06 days
 2654     Date: 02/14/07 Time: 09:53:41 CPU Time: 0 0: 7:25.83 ( 445.83 sec) Binary
 2656     Time Step No. = 1520 Elapsed Time = 2.499689E+06 days
 2657     Date: 02/14/07 Time: 09:53:47 CPU Time: 0 0: 7:31.23 ( 451.23 sec) Binary
 2659     Time Step No. = 1540 Elapsed Time = 2.899689E+06 days
 2660     Date: 02/14/07 Time: 09:53:51 CPU Time: 0 0: 7:35.99 ( 455.99 sec) Binary
 2662     Time Step No. = 1560 Elapsed Time = 3.299689E+06 days
 2663     Date: 02/14/07 Time: 09:53:56 CPU Time: 0 0: 7:40.13 ( 460.13 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
 2682     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 2683     CPU Time (total for run) = 415.56 sec = 0.11543 hr
 2684    ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
```

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 2682     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2683     CPU Time (total for run) = 463.86 sec = 0.12885 hr
 2684    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1
 3360     Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 6:55.58 ( 415.58 sec) ASCII
 3362     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 10:46:21 CPU Time: 0 0: 6:55.58 ( 415.58 sec) Binary
 3368    ********************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 10:46:21 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3371    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
 3360     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.88 ( 463.88 sec) ASCII
 3362     Time Step No. = 1578 Elapsed Time = 3.652431E+06 days
 3363     Date: 02/14/07 Time: 09:53:59 CPU Time: 0 0: 7:43.89 ( 463.89 sec) Binary
 3368    ********************************************************************************
 3369     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370     * Completed: 02/14/07 at 09:53:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371    ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 160

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES45_TEST7_V008.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V008]BF2_QB0600_ES47_TEST7_V008.OUT;1
```

BF2_QB0600_ES45_TEST7_V009_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
    3     ** Begun on: 02/14/07 at 10:44:20 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
    3     ** Begun on: 02/14/07 at 09:52:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
   62    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_TEST7_V009.INP;2
   62    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_CLOSURE.DAT;1
   67    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   72    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   72    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.SUM;1
   77    ********************************************************************************
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
 1772     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773     CPU Time (total for run) = 54.69 sec = 0.01519 hr
 1774    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 59.73 sec = 0.01659 hr
 1774    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
 2450     Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 0:54.70 ( 54.70 sec) ASCII
 2452     Time Step No. = 266 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:45:15 CPU Time: 0 0: 0:54.70 ( 54.70 sec) Binary
 2455     Time Step No. = 280 Elapsed Time = 1.358585E-02 days
 2456     Date: 02/14/07 Time: 10:45:19 CPU Time: 0 0: 0:59.29 ( 59.29 sec) Binary
 2458     Time Step No. = 300 Elapsed Time = 8.176210E-01 days
 2459     Date: 02/14/07 Time: 10:45:23 CPU Time: 0 0: 1: 2.97 ( 62.97 sec) Binary
 2461     Time Step No. = 320 Elapsed Time = 2.056227E+01 days
 2462     Date: 02/14/07 Time: 10:45:26 CPU Time: 0 0: 1: 5.82 ( 65.82 sec) Binary
 2464     Time Step No. = 340 Elapsed Time = 3.883849E+02 days
 2465     Date: 02/14/07 Time: 10:45:30 CPU Time: 0 0: 1: 9.44 ( 69.44 sec) Binary
 2467     Time Step No. = 360 Elapsed Time = 2.773294E+03 days
 2468     Date: 02/14/07 Time: 10:45:35 CPU Time: 0 0: 1:14.78 ( 74.78 sec) Binary
 2470     Time Step No. = 380 Elapsed Time = 6.744221E+03 days
 2471     Date: 02/14/07 Time: 10:45:47 CPU Time: 0 0: 1:26.47 ( 86.47 sec) Binary
 2473     Time Step No. = 400 Elapsed Time = 6.767595E+03 days
 2474     Date: 02/14/07 Time: 10:45:49 CPU Time: 0 0: 1:28.36 ( 88.36 sec) Binary
 2476     Time Step No. = 420 Elapsed Time = 6.921045E+03 days
 2477     Date: 02/14/07 Time: 10:45:55 CPU Time: 0 0: 1:35.26 ( 95.26 sec) Binary
 2479     Time Step No. = 440 Elapsed Time = 7.006907E+03 days
 2480     Date: 02/14/07 Time: 10:45:58 CPU Time: 0 0: 1:37.69 ( 97.69 sec) Binary
 2482     Time Step No. = 460 Elapsed Time = 7.220026E+03 days
 2483     Date: 02/14/07 Time: 10:46:06 CPU Time: 0 0: 1:45.24 ( 105.24 sec) Binary
 2485     Time Step No. = 480 Elapsed Time = 7.377731E+03 days
 2486     Date: 02/14/07 Time: 10:46:08 CPU Time: 0 0: 1:47.97 ( 107.97 sec) Binary
 2488     Time Step No. = 500 Elapsed Time = 8.413059E+03 days
 2489     Date: 02/14/07 Time: 10:46:15 CPU Time: 0 0: 1:54.24 ( 114.24 sec) Binary
 2491     Time Step No. = 520 Elapsed Time = 8.706621E+03 days
 2492     Date: 02/14/07 Time: 10:46:22 CPU Time: 0 0: 2: 1.75 ( 121.75 sec) Binary
 2494     Time Step No. = 540 Elapsed Time = 8.731156E+03 days
 2495     Date: 02/14/07 Time: 10:46:24 CPU Time: 0 0: 2: 3.75 ( 123.75 sec) Binary
 2497     Time Step No. = 560 Elapsed Time = 8.783097E+03 days
 2498     Date: 02/14/07 Time: 10:46:31 CPU Time: 0 0: 2:10.50 ( 130.50 sec) Binary
 2500     Time Step No. = 580 Elapsed Time = 8.873224E+03 days
 2501     Date: 02/14/07 Time: 10:46:34 CPU Time: 0 0: 2:13.04 ( 133.04 sec) Binary
 2503     Time Step No. = 600 Elapsed Time = 8.967808E+03 days
 2504     Date: 02/14/07 Time: 10:46:41 CPU Time: 0 0: 2:19.79 ( 139.79 sec) Binary
 2506     Time Step No. = 620 Elapsed Time = 9.629958E+03 days
 2507     Date: 02/14/07 Time: 10:46:44 CPU Time: 0 0: 2:22.99 ( 142.99 sec) Binary
 2509     Time Step No. = 640 Elapsed Time = 9.720759E+03 days
```

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2510    Date: 02/14/07 Time: 10:46:51 CPU Time: 0 0: 2:30.39 ( 150.39 sec) Binary
2512    Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513    Date: 02/14/07 Time: 10:46:59 CPU Time: 0 0: 2:38.16 ( 158.16 sec) Binary
2515    Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516    Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 2:40.06 ( 160.06 sec) Binary
2518    Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519    Date: 02/14/07 Time: 10:47:07 CPU Time: 0 0: 2:46.58 ( 166.58 sec) Binary
2521    Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522    Date: 02/14/07 Time: 10:47:10 CPU Time: 0 0: 2:48.78 ( 168.78 sec) Binary
2524    Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525    Date: 02/14/07 Time: 10:47:16 CPU Time: 0 0: 2:55.41 ( 175.41 sec) Binary
2527    Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528    Date: 02/14/07 Time: 10:47:24 CPU Time: 0 0: 3: 3.05 ( 183.05 sec) Binary
2530    Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531    Date: 02/14/07 Time: 10:47:25 CPU Time: 0 0: 3: 4.71 ( 184.71 sec) Binary
2533    Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534    Date: 02/14/07 Time: 10:47:32 CPU Time: 0 0: 3:11.71 ( 191.71 sec) Binary
2536    Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537    Date: 02/14/07 Time: 10:47:35 CPU Time: 0 0: 3:13.72 ( 193.72 sec) Binary
2539    Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540    Date: 02/14/07 Time: 10:47:41 CPU Time: 0 0: 3:20.36 ( 200.36 sec) Binary
2542    Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543    Date: 02/14/07 Time: 10:47:44 CPU Time: 0 0: 3:23.25 ( 203.25 sec) Binary
2545    Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546    Date: 02/14/07 Time: 10:47:49 CPU Time: 0 0: 3:28.11 ( 208.11 sec) Binary
2548    Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549    Date: 02/14/07 Time: 10:47:59 CPU Time: 0 0: 3:38.21 ( 218.21 sec) Binary
2551    Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552    Date: 02/14/07 Time: 10:48:02 CPU Time: 0 0: 3:40.76 ( 220.76 sec) Binary
2554    Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555    Date: 02/14/07 Time: 10:48:07 CPU Time: 0 0: 3:45.92 ( 225.92 sec) Binary
2557    Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558    Date: 02/14/07 Time: 10:48:17 CPU Time: 0 0: 3:56.29 ( 236.29 sec) Binary
2560    Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561    Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 3:59.08 ( 239.08 sec) Binary
2563    Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564    Date: 02/14/07 Time: 10:48:31 CPU Time: 0 0: 4:10.25 ( 250.25 sec) Binary
2566    Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
2567    Date: 02/14/07 Time: 10:48:33 CPU Time: 0 0: 4:12.09 ( 252.09 sec) Binary
2569    Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570    Date: 02/14/07 Time: 10:48:37 CPU Time: 0 0: 4:15.71 ( 255.71 sec) Binary
2572    Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573    Date: 02/14/07 Time: 10:48:46 CPU Time: 0 0: 4:25.52 ( 265.52 sec) Binary
2575    Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576    Date: 02/14/07 Time: 10:48:54 CPU Time: 0 0: 4:33.33 ( 273.33 sec) Binary
2578    Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579    Date: 02/14/07 Time: 10:48:56 CPU Time: 0 0: 4:34.95 ( 274.95 sec) Binary
2581    Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582    Date: 02/14/07 Time: 10:48:59 CPU Time: 0 0: 4:38.16 ( 278.16 sec) Binary
2584    Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585    Date: 02/14/07 Time: 10:49:07 CPU Time: 0 0: 4:46.05 ( 286.05 sec) Binary
2587    Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588    Date: 02/14/07 Time: 10:49:14 CPU Time: 0 0: 4:52.83 ( 292.83 sec) Binary
2590    Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591    Date: 02/14/07 Time: 10:49:18 CPU Time: 0 0: 4:56.50 ( 296.50 sec) Binary
2593    Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594    Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 5: 7.37 ( 307.37 sec) Binary
2596    Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597    Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 5: 9.98 ( 309.98 sec) Binary
2599    Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600    Date: 02/14/07 Time: 10:49:36 CPU Time: 0 0: 5:14.65 ( 314.65 sec) Binary
2602    Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603    Date: 02/14/07 Time: 10:49:46 CPU Time: 0 0: 5:25.40 ( 325.40 sec) Binary
2605    Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606    Date: 02/14/07 Time: 10:49:50 CPU Time: 0 0: 5:28.33 ( 328.33 sec) Binary
2608    Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609    Date: 02/14/07 Time: 10:49:56 CPU Time: 0 0: 5:35.19 ( 335.19 sec) Binary
2611    Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612    Date: 02/14/07 Time: 10:50:04 CPU Time: 0 0: 5:42.31 ( 342.31 sec) Binary
2614    Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615    Date: 02/14/07 Time: 10:50:06 CPU Time: 0 0: 5:44.41 ( 344.41 sec) Binary
2617    Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618    Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 5:52.40 ( 352.40 sec) Binary
2620    Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621    Date: 02/14/07 Time: 10:50:16 CPU Time: 0 0: 5:54.88 ( 354.88 sec) Binary
2623    Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
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2624    Date: 02/14/07 Time: 10:50:23 CPU Time: 0 0: 6: 1.94 ( 361.94 sec) Binary
2626    Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627    Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 6: 9.61 ( 369.61 sec) Binary
2629    Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630    Date: 02/14/07 Time: 10:50:33 CPU Time: 0 0: 6:12.10 ( 372.10 sec) Binary
2632    Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633    Date: 02/14/07 Time: 10:50:36 CPU Time: 0 0: 6:14.59 ( 374.59 sec) Binary
2635    Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636    Date: 02/14/07 Time: 10:50:39 CPU Time: 0 0: 6:17.39 ( 377.39 sec) Binary
2638    Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639    Date: 02/14/07 Time: 10:50:42 CPU Time: 0 0: 6:20.26 ( 380.26 sec) Binary
2641    Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642    Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 6:23.23 ( 383.23 sec) Binary
2644    Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645    Date: 02/14/07 Time: 10:50:47 CPU Time: 0 0: 6:25.97 ( 385.97 sec) Binary
2647    Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648    Date: 02/14/07 Time: 10:50:50 CPU Time: 0 0: 6:28.27 ( 388.27 sec) Binary
2650    Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651    Date: 02/14/07 Time: 10:50:57 CPU Time: 0 0: 6:35.37 ( 395.37 sec) Binary
2653    Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654    Date: 02/14/07 Time: 10:51:00 CPU Time: 0 0: 6:38.30 ( 398.30 sec) Binary
2656    Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657    Date: 02/14/07 Time: 10:51:09 CPU Time: 0 0: 6:47.31 ( 407.31 sec) Binary
2659    Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660    Date: 02/14/07 Time: 10:51:11 CPU Time: 0 0: 6:49.44 ( 409.44 sec) Binary
2662    Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663    Date: 02/14/07 Time: 10:51:18 CPU Time: 0 0: 6:56.87 ( 416.87 sec) Binary
2665    Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666    Date: 02/14/07 Time: 10:51:21 CPU Time: 0 0: 6:59.78 ( 419.78 sec) Binary
2668    Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669    Date: 02/14/07 Time: 10:51:29 CPU Time: 0 0: 7: 7.19 ( 427.19 sec) Binary
2671    Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672    Date: 02/14/07 Time: 10:51:32 CPU Time: 0 0: 7:10.33 ( 430.33 sec) Binary
2674    Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675    Date: 02/14/07 Time: 10:51:40 CPU Time: 0 0: 7:18.01 ( 438.01 sec) Binary
2677    Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678    Date: 02/14/07 Time: 10:51:43 CPU Time: 0 0: 7:20.98 ( 440.98 sec) Binary
2680    Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
2681    Date: 02/14/07 Time: 10:51:51 CPU Time: 0 0: 7:29.04 ( 449.04 sec) Binary
2683    Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684    Date: 02/14/07 Time: 10:52:04 CPU Time: 0 0: 7:42.00 ( 462.00 sec) Binary
2686    Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687    Date: 02/14/07 Time: 10:52:06 CPU Time: 0 0: 7:43.90 ( 463.90 sec) Binary
2689    Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690    Date: 02/14/07 Time: 10:52:09 CPU Time: 0 0: 7:47.52 ( 467.52 sec) Binary
2692    Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693    Date: 02/14/07 Time: 10:52:19 CPU Time: 0 0: 7:57.39 ( 477.39 sec) Binary
2695    Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696    Date: 02/14/07 Time: 10:52:22 CPU Time: 0 0: 8: 0.30 ( 480.30 sec) Binary
2698    Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699    Date: 02/14/07 Time: 10:52:28 CPU Time: 0 0: 8: 5.62 ( 485.62 sec) Binary
2701    Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702    Date: 02/14/07 Time: 10:52:39 CPU Time: 0 0: 8:16.49 ( 496.49 sec) Binary
2704    Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705    Date: 02/14/07 Time: 10:52:42 CPU Time: 0 0: 8:19.46 ( 499.46 sec) Binary
2707    Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708    Date: 02/14/07 Time: 10:52:49 CPU Time: 0 0: 8:26.51 ( 506.51 sec) Binary
2710    Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2711    Date: 02/14/07 Time: 10:52:56 CPU Time: 0 0: 8:34.16 ( 514.16 sec) Binary
2713    Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714    Date: 02/14/07 Time: 10:52:58 CPU Time: 0 0: 8:36.23 ( 516.23 sec) Binary
2716    Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717    Date: 02/14/07 Time: 10:53:03 CPU Time: 0 0: 8:40.61 ( 520.61 sec) Binary
2719    Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720    Date: 02/14/07 Time: 10:53:12 CPU Time: 0 0: 8:49.52 ( 529.52 sec) Binary
2722    Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2723    Date: 02/14/07 Time: 10:53:20 CPU Time: 0 0: 8:57.57 ( 537.57 sec) Binary
2725    Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726    Date: 02/14/07 Time: 10:53:22 CPU Time: 0 0: 8:59.40 ( 539.40 sec) Binary
2728    Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729    Date: 02/14/07 Time: 10:53:28 CPU Time: 0 0: 9: 5.92 ( 545.92 sec) Binary
2731    Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732    Date: 02/14/07 Time: 10:53:31 CPU Time: 0 0: 9: 8.58 ( 548.58 sec) Binary
2734    Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735    Date: 02/14/07 Time: 10:53:38 CPU Time: 0 0: 9:15.52 ( 555.52 sec) Binary
2737    Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
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2738    Date: 02/14/07 Time: 10:53:41 CPU Time: 0 0: 9:18.59 ( 558.59 sec) Binary
2740    Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741    Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 9:24.57 ( 564.57 sec) Binary
2743    Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744    Date: 02/14/07 Time: 10:53:59 CPU Time: 0 0: 9:36.50 ( 576.50 sec) Binary
2746    Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747    Date: 02/14/07 Time: 10:54:01 CPU Time: 0 0: 9:38.86 ( 578.86 sec) Binary
2749    Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750    Date: 02/14/07 Time: 10:54:05 CPU Time: 0 0: 9:42.94 ( 582.94 sec) Binary
2752    Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753    Date: 02/14/07 Time: 10:54:16 CPU Time: 0 0: 9:53.74 ( 593.74 sec) Binary
2755    Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756    Date: 02/14/07 Time: 10:54:19 CPU Time: 0 0: 9:56.76 ( 596.76 sec) Binary
2758    Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759    Date: 02/14/07 Time: 10:54:26 CPU Time: 0 0:10: 3.39 ( 603.39 sec) Binary
2761    Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762    Date: 02/14/07 Time: 10:54:29 CPU Time: 0 0:10: 6.81 ( 606.81 sec) Binary
2764    Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765    Date: 02/14/07 Time: 10:54:41 CPU Time: 0 0:10:19.04 ( 619.04 sec) Binary
2767    Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768    Date: 02/14/07 Time: 10:54:44 CPU Time: 0 0:10:21.39 ( 621.39 sec) Binary
2770    Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771    Date: 02/14/07 Time: 10:54:50 CPU Time: 0 0:10:27.81 ( 627.81 sec) Binary
2773    Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774    Date: 02/14/07 Time: 10:54:53 CPU Time: 0 0:10:30.98 ( 630.98 sec) Binary
2776    Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777    Date: 02/14/07 Time: 10:55:01 CPU Time: 0 0:10:38.38 ( 638.38 sec) Binary
2779    Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780    Date: 02/14/07 Time: 10:55:08 CPU Time: 0 0:10:45.57 ( 645.57 sec) Binary
2782    Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783    Date: 02/14/07 Time: 10:55:11 CPU Time: 0 0:10:48.08 ( 648.08 sec) Binary
2785    Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786    Date: 02/14/07 Time: 10:55:15 CPU Time: 0 0:10:52.25 ( 652.25 sec) Binary
2788    Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789    Date: 02/14/07 Time: 10:55:23 CPU Time: 0 0:11: 0.64 ( 660.64 sec) Binary
2791    Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792    Date: 02/14/07 Time: 10:55:34 CPU Time: 0 0:11:11.12 ( 671.12 sec) Binary
2794    Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
2795    Date: 02/14/07 Time: 10:55:37 CPU Time: 0 0:11:14.07 ( 674.07 sec) Binary
2797    Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798    Date: 02/14/07 Time: 10:55:43 CPU Time: 0 0:11:19.44 ( 679.44 sec) Binary
2800    Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801    Date: 02/14/07 Time: 10:55:52 CPU Time: 0 0:11:29.25 ( 689.25 sec) Binary
2803    Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804    Date: 02/14/07 Time: 10:55:58 CPU Time: 0 0:11:35.20 ( 695.20 sec) Binary
2806    Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807    Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0:11:41.38 ( 701.38 sec) Binary
2809    Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810    Date: 02/14/07 Time: 10:56:12 CPU Time: 0 0:11:48.31 ( 708.31 sec) Binary
2812    Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813    Date: 02/14/07 Time: 10:56:20 CPU Time: 0 0:11:57.02 ( 717.02 sec) Binary
2815    Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816    Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0:12: 2.95 ( 722.95 sec) Binary
2818    Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819    Date: 02/14/07 Time: 10:56:33 CPU Time: 0 0:12:10.07 ( 730.07 sec) Binary
2821    Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822    Date: 02/14/07 Time: 10:56:42 CPU Time: 0 0:12:19.10 ( 739.10 sec) Binary
2824    Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825    Date: 02/14/07 Time: 10:56:51 CPU Time: 0 0:12:27.55 ( 747.55 sec) Binary
2827    Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828    Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0:12:37.20 ( 757.20 sec) Binary
2830    Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831    Date: 02/14/07 Time: 10:57:09 CPU Time: 0 0:12:46.03 ( 766.03 sec) Binary
2833    Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834    Date: 02/14/07 Time: 10:57:17 CPU Time: 0 0:12:54.03 ( 774.03 sec) Binary
2836    Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837    Date: 02/14/07 Time: 10:57:26 CPU Time: 0 0:13: 2.65 ( 782.65 sec) Binary
2839    Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840    Date: 02/14/07 Time: 10:57:35 CPU Time: 0 0:13:11.02 ( 791.02 sec) Binary
2842    Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843    Date: 02/14/07 Time: 10:57:42 CPU Time: 0 0:13:18.91 ( 798.91 sec) Binary
2845    Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846    Date: 02/14/07 Time: 10:57:52 CPU Time: 0 0:13:28.78 ( 808.78 sec) Binary
2848    Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849    Date: 02/14/07 Time: 10:58:02 CPU Time: 0 0:13:38.07 ( 818.07 sec) Binary
2851    Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
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2852    Date: 02/14/07 Time: 10:58:09 CPU Time: 0 0:13:45.94 ( 825.94 sec) Binary
2854    Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855    Date: 02/14/07 Time: 10:58:17 CPU Time: 0 0:13:53.31 ( 833.31 sec) Binary
2857    Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858    Date: 02/14/07 Time: 10:58:24 CPU Time: 0 0:13:59.96 ( 839.96 sec) Binary
2860    Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861    Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0:14: 6.86 ( 846.86 sec) Binary
2863    Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864    Date: 02/14/07 Time: 10:58:37 CPU Time: 0 0:14:13.40 ( 853.40 sec) Binary
2866    Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867    Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0:14:19.48 ( 859.48 sec) Binary
2869    Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870    Date: 02/14/07 Time: 10:58:50 CPU Time: 0 0:14:26.01 ( 866.01 sec) Binary
2872    Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873    Date: 02/14/07 Time: 10:58:56 CPU Time: 0 0:14:32.06 ( 872.06 sec) Binary
2875    Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876    Date: 02/14/07 Time: 10:59:02 CPU Time: 0 0:14:38.60 ( 878.60 sec) Binary
2878    Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879    Date: 02/14/07 Time: 10:59:08 CPU Time: 0 0:14:44.66 ( 884.66 sec) Binary
2881    Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882    Date: 02/14/07 Time: 10:59:15 CPU Time: 0 0:14:50.97 ( 890.97 sec) Binary
2884    Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885    Date: 02/14/07 Time: 10:59:20 CPU Time: 0 0:14:56.46 ( 896.46 sec) Binary
2887    Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888    Date: 02/14/07 Time: 10:59:26 CPU Time: 0 0:15: 2.58 ( 902.58 sec) Binary
2890    Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891    Date: 02/14/07 Time: 10:59:32 CPU Time: 0 0:15: 7.96 ( 907.96 sec) Binary
2893    Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894    Date: 02/14/07 Time: 10:59:37 CPU Time: 0 0:15:13.71 ( 913.71 sec) Binary
2896    Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897    Date: 02/14/07 Time: 10:59:43 CPU Time: 0 0:15:18.98 ( 918.98 sec) Binary
2899    Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900    Date: 02/14/07 Time: 10:59:48 CPU Time: 0 0:15:24.26 ( 924.26 sec) Binary
2902    Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903    Date: 02/14/07 Time: 10:59:54 CPU Time: 0 0:15:30.05 ( 930.05 sec) Binary
2905    Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906    Date: 02/14/07 Time: 10:59:59 CPU Time: 0 0:15:35.34 ( 935.34 sec) Binary
2908    Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
2909    Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0:15:41.09 ( 941.09 sec) Binary
2911    Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912    Date: 02/14/07 Time: 11:00:10 CPU Time: 0 0:15:46.35 ( 946.35 sec) Binary
2914    Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915    Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0:15:52.06 ( 952.06 sec) Binary
2917    Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918    Date: 02/14/07 Time: 11:00:21 CPU Time: 0 0:15:57.31 ( 957.31 sec) Binary
2920    Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921    Date: 02/14/07 Time: 11:00:26 CPU Time: 0 0:16: 2.56 ( 962.56 sec) Binary
2923    Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924    Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0:16: 8.27 ( 968.27 sec) Binary
2926    Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927    Date: 02/14/07 Time: 11:00:37 CPU Time: 0 0:16:13.52 ( 973.52 sec) Binary
2929    Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930    Date: 02/14/07 Time: 11:00:43 CPU Time: 0 0:16:19.22 ( 979.22 sec) Binary
2932    Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933    Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0:16:24.46 ( 984.46 sec) Binary
2935    Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936    Date: 02/14/07 Time: 11:00:54 CPU Time: 0 0:16:30.19 ( 990.19 sec) Binary
2938    Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939    Date: 02/14/07 Time: 11:00:59 CPU Time: 0 0:16:35.43 ( 995.43 sec) Binary
2941    Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942    Date: 02/14/07 Time: 11:01:04 CPU Time: 0 0:16:40.67 ( 1000.67 sec) Binary
2944    Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945    Date: 02/14/07 Time: 11:01:10 CPU Time: 0 0:16:46.40 ( 1006.40 sec) Binary
2947    Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948    Date: 02/14/07 Time: 11:01:15 CPU Time: 0 0:16:51.65 ( 1011.65 sec) Binary
2950    Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951    Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0:16:57.37 ( 1017.37 sec) Binary
2953    Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954    Date: 02/14/07 Time: 11:01:26 CPU Time: 0 0:17: 2.61 ( 1022.61 sec) Binary
2956    Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957    Date: 02/14/07 Time: 11:01:32 CPU Time: 0 0:17: 7.86 ( 1027.86 sec) Binary
2959    Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960    Date: 02/14/07 Time: 11:01:37 CPU Time: 0 0:17:13.58 ( 1033.58 sec) Binary
2962    Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963    Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0:17:18.82 ( 1038.82 sec) Binary
2965    Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
```

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2966    Date: 02/14/07 Time: 11:01:48 CPU Time: 0 0:17:24.54 ( 1044.54 sec) Binary
2968    Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969    Date: 02/14/07 Time: 11:01:54 CPU Time: 0 0:17:29.79 ( 1049.79 sec) Binary
2971    Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972    Date: 02/14/07 Time: 11:01:59 CPU Time: 0 0:17:35.50 ( 1055.50 sec) Binary
2974    Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975    Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0:17:40.75 ( 1060.75 sec) Binary
2977    Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978    Date: 02/14/07 Time: 11:02:10 CPU Time: 0 0:17:46.01 ( 1066.01 sec) Binary
2980    Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981    Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0:17:51.73 ( 1071.73 sec) Binary
2983    Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984    Date: 02/14/07 Time: 11:02:21 CPU Time: 0 0:17:56.96 ( 1076.96 sec) Binary
2986    Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987    Date: 02/14/07 Time: 11:02:27 CPU Time: 0 0:18: 2.68 ( 1082.68 sec) Binary
2989    Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990    Date: 02/14/07 Time: 11:02:32 CPU Time: 0 0:18: 7.94 ( 1087.94 sec) Binary
2992    Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993    Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0:18:13.19 ( 1093.19 sec) Binary
2995    Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996    Date: 02/14/07 Time: 11:02:43 CPU Time: 0 0:18:18.92 ( 1098.92 sec) Binary
2998    Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999    Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0:18:24.16 ( 1104.16 sec) Binary
3001    Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002    Date: 02/14/07 Time: 11:02:54 CPU Time: 0 0:18:29.88 ( 1109.88 sec) Binary
3004    Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005    Date: 02/14/07 Time: 11:02:59 CPU Time: 0 0:18:35.11 ( 1115.11 sec) Binary
3007    Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008    Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0:18:40.84 ( 1120.84 sec) Binary
3010    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011    Date: 02/14/07 Time: 11:03:10 CPU Time: 0 0:18:46.07 ( 1126.07 sec) Binary
3013    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014    Date: 02/14/07 Time: 11:03:15 CPU Time: 0 0:18:51.44 ( 1131.44 sec) Binary
3016    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017    Date: 02/14/07 Time: 11:03:21 CPU Time: 0 0:18:57.15 ( 1137.15 sec) Binary
3019    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020    Date: 02/14/07 Time: 11:03:26 CPU Time: 0 0:19: 2.39 ( 1142.39 sec) Binary
3022    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
3023    Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0:19: 7.64 ( 1147.64 sec) Binary
3025    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026    Date: 02/14/07 Time: 11:03:37 CPU Time: 0 0:19:13.36 ( 1153.36 sec) Binary
3028    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029    Date: 02/14/07 Time: 11:03:43 CPU Time: 0 0:19:18.60 ( 1158.60 sec) Binary
3031    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032    Date: 02/14/07 Time: 11:03:48 CPU Time: 0 0:19:23.95 ( 1163.95 sec) Binary
3034    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035    Date: 02/14/07 Time: 11:03:54 CPU Time: 0 0:19:29.90 ( 1169.90 sec) Binary
3037    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038    Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0:19:35.89 ( 1175.89 sec) Binary
3040    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041    Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0:19:43.77 ( 1183.77 sec) Binary
3043    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044    Date: 02/14/07 Time: 11:04:15 CPU Time: 0 0:19:50.63 ( 1190.63 sec) Binary
3046    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047    Date: 02/14/07 Time: 11:04:27 CPU Time: 0 0:20: 3.05 ( 1203.05 sec) Binary
3049    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050    Date: 02/14/07 Time: 11:04:33 CPU Time: 0 0:20: 8.77 ( 1208.77 sec) Binary
3052    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053    Date: 02/14/07 Time: 11:04:38 CPU Time: 0 0:20:14.02 ( 1214.02 sec) Binary
3055    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056    Date: 02/14/07 Time: 11:04:44 CPU Time: 0 0:20:19.30 ( 1219.30 sec) Binary
3058    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059    Date: 02/14/07 Time: 11:04:49 CPU Time: 0 0:20:25.03 ( 1225.03 sec) Binary
3061    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062    Date: 02/14/07 Time: 11:04:55 CPU Time: 0 0:20:30.27 ( 1230.27 sec) Binary
3064    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065    Date: 02/14/07 Time: 11:05:00 CPU Time: 0 0:20:35.53 ( 1235.53 sec) Binary
3067    Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068    Date: 02/14/07 Time: 11:05:06 CPU Time: 0 0:20:41.27 ( 1241.27 sec) Binary
3070    Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071    Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0:20:48.82 ( 1248.82 sec) Binary
3073    Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074    Date: 02/14/07 Time: 11:05:15 CPU Time: 0 0:20:50.42 ( 1250.42 sec) Binary
3076    Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077    Date: 02/14/07 Time: 11:05:18 CPU Time: 0 0:20:53.60 ( 1253.60 sec) Binary
3079    Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
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3080    Date: 02/14/07 Time: 11:05:29 CPU Time: 0 0:21: 4.18 ( 1264.18 sec) Binary
3082    Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083    Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0:21: 7.30 ( 1267.30 sec) Binary
3085    Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086    Date: 02/14/07 Time: 11:05:43 CPU Time: 0 0:21:18.41 ( 1278.41 sec) Binary
3088    Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089    Date: 02/14/07 Time: 11:05:47 CPU Time: 0 0:21:22.64 ( 1282.64 sec) Binary
3091    Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092    Date: 02/14/07 Time: 11:05:55 CPU Time: 0 0:21:30.60 ( 1290.60 sec) Binary
3094    Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095    Date: 02/14/07 Time: 11:06:04 CPU Time: 0 0:21:39.21 ( 1299.21 sec) Binary
3097    Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098    Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0:21:46.65 ( 1306.65 sec) Binary
3100    Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101    Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0:21:50.97 ( 1310.97 sec) Binary
3103    Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104    Date: 02/14/07 Time: 11:06:23 CPU Time: 0 0:21:58.65 ( 1318.65 sec) Binary
3106    Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107    Date: 02/14/07 Time: 11:06:33 CPU Time: 0 0:22: 8.01 ( 1328.01 sec) Binary
3109    Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110    Date: 02/14/07 Time: 11:06:41 CPU Time: 0 0:22:15.93 ( 1335.93 sec) Binary
3112    Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113    Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0:22:23.59 ( 1343.59 sec) Binary
3115    Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116    Date: 02/14/07 Time: 11:06:57 CPU Time: 0 0:22:31.83 ( 1351.83 sec) Binary
3118    Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119    Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0:22:39.37 ( 1359.37 sec) Binary
3121    Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122    Date: 02/14/07 Time: 11:07:12 CPU Time: 0 0:22:47.48 ( 1367.48 sec) Binary
3124    Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125    Date: 02/14/07 Time: 11:07:19 CPU Time: 0 0:22:54.26 ( 1374.26 sec) Binary
3127    Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128    Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0:23: 1.06 ( 1381.06 sec) Binary
3130    Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131    Date: 02/14/07 Time: 11:07:33 CPU Time: 0 0:23: 8.37 ( 1388.37 sec) Binary
3133    Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134    Date: 02/14/07 Time: 11:07:42 CPU Time: 0 0:23:16.97 ( 1396.97 sec) Binary
3136    Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
3137    Date: 02/14/07 Time: 11:07:48 CPU Time: 0 0:23:22.94 ( 1402.94 sec) Binary
3139    Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140    Date: 02/14/07 Time: 11:07:53 CPU Time: 0 0:23:28.24 ( 1408.24 sec) Binary
3142    Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143    Date: 02/14/07 Time: 11:08:00 CPU Time: 0 0:23:35.18 ( 1415.18 sec) Binary
3145    Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146    Date: 02/14/07 Time: 11:08:03 CPU Time: 0 0:23:37.61 ( 1417.61 sec) Binary
3148    Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149    Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0:23:40.31 ( 1420.31 sec) Binary
3151    Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152    Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0:23:45.94 ( 1425.94 sec) Binary
3154    Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155    Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0:23:52.24 ( 1432.24 sec) Binary
3157    Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158    Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0:23:53.65 ( 1433.65 sec) Binary
3160    Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161    Date: 02/14/07 Time: 11:08:22 CPU Time: 0 0:23:56.42 ( 1436.42 sec) Binary
3163    Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164    Date: 02/14/07 Time: 11:08:28 CPU Time: 0 0:24: 2.87 ( 1442.87 sec) Binary
3166    Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167    Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0:24: 9.04 ( 1449.04 sec) Binary
3169    Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170    Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0:24:15.80 ( 1455.80 sec) Binary
3172    Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173    Date: 02/14/07 Time: 11:08:48 CPU Time: 0 0:24:22.85 ( 1462.85 sec) Binary
3175    Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176    Date: 02/14/07 Time: 11:08:55 CPU Time: 0 0:24:29.19 ( 1469.19 sec) Binary
3178    Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179    Date: 02/14/07 Time: 11:09:00 CPU Time: 0 0:24:34.74 ( 1474.74 sec) Binary
3181    Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182    Date: 02/14/07 Time: 11:09:06 CPU Time: 0 0:24:40.81 ( 1480.81 sec) Binary
3184    Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185    Date: 02/14/07 Time: 11:09:16 CPU Time: 0 0:24:50.31 ( 1490.31 sec) Binary
3187    Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188    Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0:24:53.65 ( 1493.65 sec) Binary
3190    Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191    Date: 02/14/07 Time: 11:09:25 CPU Time: 0 0:24:59.15 ( 1499.15 sec) Binary
3193    Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
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 3194     Date: 02/14/07 Time: 11:09:33 CPU Time: 0 0:25: 7.14 ( 1507.14 sec) Binary
 3196     Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
 3197     Date: 02/14/07 Time: 11:09:38 CPU Time: 0 0:25:12.42 ( 1512.42 sec) Binary
 3199     Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
 3200     Date: 02/14/07 Time: 11:09:43 CPU Time: 0 0:25:17.91 ( 1517.91 sec) Binary
 3202     Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
 3203     Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0:25:25.48 ( 1525.48 sec) Binary
 3205     Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
 3206     Date: 02/14/07 Time: 11:09:59 CPU Time: 0 0:25:33.29 ( 1533.29 sec) Binary
 3208     Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
 3209     Date: 02/14/07 Time: 11:10:07 CPU Time: 0 0:25:40.98 ( 1540.98 sec) Binary
 3211     Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
 3212     Date: 02/14/07 Time: 11:10:15 CPU Time: 0 0:25:49.57 ( 1549.57 sec) Binary
 3214     Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
 3215     Date: 02/14/07 Time: 11:10:23 CPU Time: 0 0:25:57.69 ( 1557.69 sec) Binary
 3217     Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
 3218     Date: 02/14/07 Time: 11:10:31 CPU Time: 0 0:26: 5.09 ( 1565.09 sec) Binary
 3220     Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
 3221     Date: 02/14/07 Time: 11:10:36 CPU Time: 0 0:26:10.27 ( 1570.27 sec) Binary
 3223     Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
 3224     Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0:26:17.23 ( 1577.23 sec) Binary
 3226     Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
 3227     Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0:26:24.49 ( 1584.49 sec) Binary
 3229     Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
 3230     Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0:26:28.19 ( 1588.19 sec) Binary
 3232     Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
 3233     Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0:26:37.01 ( 1597.01 sec) Binary
 3235     Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
 3236     Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0:26:42.96 ( 1602.96 sec) Binary
 3238     Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
 3239     Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0:26:49.79 ( 1609.79 sec) Binary
 3241     Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
 3242     Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0:26:57.91 ( 1617.91 sec) Binary
 3244     Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
 3245     Date: 02/14/07 Time: 11:11:27 CPU Time: 0 0:27: 0.90 ( 1620.90 sec) Binary
 3247     Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
 3248     Date: 02/14/07 Time: 11:11:33 CPU Time: 0 0:27: 6.86 ( 1626.86 sec) Binary
 3250     Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
 3251     Date: 02/14/07 Time: 11:11:40 CPU Time: 0 0:27:14.12 ( 1634.12 sec) Binary
 3253     Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
 3254     Date: 02/14/07 Time: 11:11:47 CPU Time: 0 0:27:20.62 ( 1640.62 sec) Binary
 3256     Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
 3257     Date: 02/14/07 Time: 11:11:54 CPU Time: 0 0:27:27.42 ( 1647.42 sec) Binary
 3259     Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
 3260     Date: 02/14/07 Time: 11:11:58 CPU Time: 0 0:27:32.09 ( 1652.09 sec) Binary
 3262     Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
 3263     Date: 02/14/07 Time: 11:12:05 CPU Time: 0 0:27:38.47 ( 1658.47 sec) Binary
 3265     Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
 3266     Date: 02/14/07 Time: 11:12:11 CPU Time: 0 0:27:44.91 ( 1664.91 sec) Binary
 3268     Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
 3269     Date: 02/14/07 Time: 11:12:16 CPU Time: 0 0:27:49.33 ( 1669.33 sec) Binary
 3271     Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
 3272     Date: 02/14/07 Time: 11:12:21 CPU Time: 0 0:27:54.96 ( 1674.96 sec) Binary
 3274     Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
 3275     Date: 02/14/07 Time: 11:12:28 CPU Time: 0 0:28: 2.06 ( 1682.06 sec) Binary
 3277     Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
 3278     Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0:28: 7.17 ( 1687.17 sec) Binary
 3280     Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
 3281     Date: 02/14/07 Time: 11:12:40 CPU Time: 0 0:28:13.80 ( 1693.80 sec) Binary
 3283     Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
 3284     Date: 02/14/07 Time: 11:12:47 CPU Time: 0 0:28:20.95 ( 1700.95 sec) Binary
 3286     Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
 3287     Date: 02/14/07 Time: 11:12:54 CPU Time: 0 0:28:27.64 ( 1707.64 sec) Binary
 3289     Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
 3290     Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0:28:31.43 ( 1711.43 sec) Binary
 3292     Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
 3293     Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0:28:35.99 ( 1715.99 sec) Binary
 3295     Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
 3296     Date: 02/14/07 Time: 11:13:08 CPU Time: 0 0:28:41.30 ( 1721.30 sec) Binary
 3298     Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
 3299     Date: 02/14/07 Time: 11:13:14 CPU Time: 0 0:28:46.80 ( 1726.80 sec) Binary
 3302     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 2450     Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.74 ( 59.74 sec) ASCII
 2452     Time Step No. = 266 Elapsed Time = 0.000000E+00 days
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2453     Date: 02/14/07 Time: 09:53:25 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
2455     Time Step No. = 280 Elapsed Time = 1.358585E-02 days
2456     Date: 02/14/07 Time: 09:53:30 CPU Time: 0 0: 1: 5.15 ( 65.15 sec) Binary
2458     Time Step No. = 300 Elapsed Time = 8.176210E-01 days
2459     Date: 02/14/07 Time: 09:53:35 CPU Time: 0 0: 1: 9.55 ( 69.55 sec) Binary
2461     Time Step No. = 320 Elapsed Time = 2.056227E+01 days
2462     Date: 02/14/07 Time: 09:53:38 CPU Time: 0 0: 1:12.89 ( 72.89 sec) Binary
2464     Time Step No. = 340 Elapsed Time = 3.883849E+02 days
2465     Date: 02/14/07 Time: 09:53:42 CPU Time: 0 0: 1:17.15 ( 77.15 sec) Binary
2467     Time Step No. = 360 Elapsed Time = 2.773294E+03 days
2468     Date: 02/14/07 Time: 09:53:49 CPU Time: 0 0: 1:23.42 ( 83.42 sec) Binary
2470     Time Step No. = 380 Elapsed Time = 6.744221E+03 days
2471     Date: 02/14/07 Time: 09:54:02 CPU Time: 0 0: 1:37.17 ( 97.17 sec) Binary
2473     Time Step No. = 400 Elapsed Time = 6.767595E+03 days
2474     Date: 02/14/07 Time: 09:54:05 CPU Time: 0 0: 1:39.45 ( 99.45 sec) Binary
2476     Time Step No. = 420 Elapsed Time = 6.921045E+03 days
2477     Date: 02/14/07 Time: 09:54:13 CPU Time: 0 0: 1:47.65 ( 107.65 sec) Binary
2479     Time Step No. = 440 Elapsed Time = 7.006907E+03 days
2480     Date: 02/14/07 Time: 09:54:16 CPU Time: 0 0: 1:50.59 ( 110.59 sec) Binary
2482     Time Step No. = 460 Elapsed Time = 7.220026E+03 days
2483     Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 1:59.64 ( 119.64 sec) Binary
2485     Time Step No. = 480 Elapsed Time = 7.377731E+03 days
2486     Date: 02/14/07 Time: 09:54:28 CPU Time: 0 0: 2: 2.92 ( 122.92 sec) Binary
2488     Time Step No. = 500 Elapsed Time = 8.413059E+03 days
2489     Date: 02/14/07 Time: 09:54:36 CPU Time: 0 0: 2:10.47 ( 130.47 sec) Binary
2491     Time Step No. = 520 Elapsed Time = 8.706621E+03 days
2492     Date: 02/14/07 Time: 09:54:45 CPU Time: 0 0: 2:19.54 ( 139.54 sec) Binary
2494     Time Step No. = 540 Elapsed Time = 8.731156E+03 days
2495     Date: 02/14/07 Time: 09:54:47 CPU Time: 0 0: 2:21.99 ( 141.99 sec) Binary
2497     Time Step No. = 560 Elapsed Time = 8.783097E+03 days
2498     Date: 02/14/07 Time: 09:54:56 CPU Time: 0 0: 2:30.13 ( 150.13 sec) Binary
2500     Time Step No. = 580 Elapsed Time = 8.873224E+03 days
2501     Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 2:33.21 ( 153.21 sec) Binary
2503     Time Step No. = 600 Elapsed Time = 8.967808E+03 days
2504     Date: 02/14/07 Time: 09:55:07 CPU Time: 0 0: 2:41.33 ( 161.33 sec) Binary
2506     Time Step No. = 620 Elapsed Time = 9.629958E+03 days
2507     Date: 02/14/07 Time: 09:55:11 CPU Time: 0 0: 2:45.19 ( 165.19 sec) Binary
2509     Time Step No. = 640 Elapsed Time = 9.720759E+03 days
2510     Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 2:54.09 ( 174.09 sec) Binary
2512     Time Step No. = 660 Elapsed Time = 9.817097E+03 days
2513     Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 3: 3.42 ( 183.42 sec) Binary
2515     Time Step No. = 680 Elapsed Time = 9.829974E+03 days
2516     Date: 02/14/07 Time: 09:55:31 CPU Time: 0 0: 3: 5.70 ( 185.70 sec) Binary
2518     Time Step No. = 700 Elapsed Time = 9.879586E+03 days
2519     Date: 02/14/07 Time: 09:55:39 CPU Time: 0 0: 3:13.56 ( 193.56 sec) Binary
2521     Time Step No. = 720 Elapsed Time = 9.926888E+03 days
2522     Date: 02/14/07 Time: 09:55:42 CPU Time: 0 0: 3:16.22 ( 196.22 sec) Binary
2524     Time Step No. = 740 Elapsed Time = 9.955795E+03 days
2525     Date: 02/14/07 Time: 09:55:50 CPU Time: 0 0: 3:24.20 ( 204.20 sec) Binary
2527     Time Step No. = 760 Elapsed Time = 1.004381E+04 days
2528     Date: 02/14/07 Time: 09:55:59 CPU Time: 0 0: 3:33.37 ( 213.37 sec) Binary
2530     Time Step No. = 780 Elapsed Time = 1.005117E+04 days
2531     Date: 02/14/07 Time: 09:56:01 CPU Time: 0 0: 3:35.40 ( 215.40 sec) Binary
2533     Time Step No. = 800 Elapsed Time = 1.011334E+04 days
2534     Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 3:43.80 ( 223.80 sec) Binary
2536     Time Step No. = 820 Elapsed Time = 1.014038E+04 days
2537     Date: 02/14/07 Time: 09:56:12 CPU Time: 0 0: 3:46.20 ( 226.20 sec) Binary
2539     Time Step No. = 840 Elapsed Time = 1.021957E+04 days
2540     Date: 02/14/07 Time: 09:56:20 CPU Time: 0 0: 3:53.85 ( 233.85 sec) Binary
2542     Time Step No. = 860 Elapsed Time = 1.041817E+04 days
2543     Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 3:57.18 ( 237.18 sec) Binary
2545     Time Step No. = 880 Elapsed Time = 1.365675E+04 days
2546     Date: 02/14/07 Time: 09:56:29 CPU Time: 0 0: 4: 2.87 ( 242.87 sec) Binary
2548     Time Step No. = 900 Elapsed Time = 1.556649E+04 days
2549     Date: 02/14/07 Time: 09:56:41 CPU Time: 0 0: 4:14.94 ( 254.94 sec) Binary
2551     Time Step No. = 920 Elapsed Time = 1.562828E+04 days
2552     Date: 02/14/07 Time: 09:56:44 CPU Time: 0 0: 4:18.01 ( 258.01 sec) Binary
2554     Time Step No. = 940 Elapsed Time = 1.939403E+04 days
2555     Date: 02/14/07 Time: 09:56:51 CPU Time: 0 0: 4:24.20 ( 264.20 sec) Binary
2557     Time Step No. = 960 Elapsed Time = 2.123309E+04 days
2558     Date: 02/14/07 Time: 09:57:03 CPU Time: 0 0: 4:36.67 ( 276.67 sec) Binary
2560     Time Step No. = 980 Elapsed Time = 2.131000E+04 days
2561     Date: 02/14/07 Time: 09:57:06 CPU Time: 0 0: 4:40.02 ( 280.02 sec) Binary
2563     Time Step No. = 1000 Elapsed Time = 2.294013E+04 days
2564     Date: 02/14/07 Time: 09:57:20 CPU Time: 0 0: 4:53.40 ( 293.40 sec) Binary
2566     Time Step No. = 1020 Elapsed Time = 2.294896E+04 days
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2567    Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 4:55.43 ( 295.43 sec) Binary
2569    Time Step No. = 1040 Elapsed Time = 2.371476E+04 days
2570    Date: 02/14/07 Time: 09:57:26 CPU Time: 0 0: 4:59.39 ( 299.39 sec) Binary
2572    Time Step No. = 1060 Elapsed Time = 2.412100E+04 days
2573    Date: 02/14/07 Time: 09:57:37 CPU Time: 0 0: 5:10.13 ( 310.13 sec) Binary
2575    Time Step No. = 1080 Elapsed Time = 2.417691E+04 days
2576    Date: 02/14/07 Time: 09:57:46 CPU Time: 0 0: 5:19.31 ( 319.31 sec) Binary
2578    Time Step No. = 1100 Elapsed Time = 2.418063E+04 days
2579    Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 5:21.22 ( 321.22 sec) Binary
2581    Time Step No. = 1120 Elapsed Time = 2.450356E+04 days
2582    Date: 02/14/07 Time: 09:57:51 CPU Time: 0 0: 5:24.98 ( 324.98 sec) Binary
2584    Time Step No. = 1140 Elapsed Time = 2.827711E+04 days
2585    Date: 02/14/07 Time: 09:58:01 CPU Time: 0 0: 5:34.23 ( 334.23 sec) Binary
2587    Time Step No. = 1160 Elapsed Time = 2.828638E+04 days
2588    Date: 02/14/07 Time: 09:58:09 CPU Time: 0 0: 5:42.19 ( 342.19 sec) Binary
2590    Time Step No. = 1180 Elapsed Time = 2.909021E+04 days
2591    Date: 02/14/07 Time: 09:58:13 CPU Time: 0 0: 5:46.52 ( 346.52 sec) Binary
2593    Time Step No. = 1200 Elapsed Time = 3.111835E+04 days
2594    Date: 02/14/07 Time: 09:58:26 CPU Time: 0 0: 5:59.27 ( 359.27 sec) Binary
2596    Time Step No. = 1220 Elapsed Time = 3.116449E+04 days
2597    Date: 02/14/07 Time: 09:58:29 CPU Time: 0 0: 6: 2.34 ( 362.34 sec) Binary
2599    Time Step No. = 1240 Elapsed Time = 3.417846E+04 days
2600    Date: 02/14/07 Time: 09:58:35 CPU Time: 0 0: 6: 7.83 ( 367.83 sec) Binary
2602    Time Step No. = 1260 Elapsed Time = 3.574682E+04 days
2603    Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 6:20.42 ( 380.42 sec) Binary
2605    Time Step No. = 1280 Elapsed Time = 3.586166E+04 days
2606    Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 6:23.93 ( 383.93 sec) Binary
2608    Time Step No. = 1300 Elapsed Time = 3.593185E+04 days
2609    Date: 02/14/07 Time: 09:58:59 CPU Time: 0 0: 6:32.02 ( 392.02 sec) Binary
2611    Time Step No. = 1320 Elapsed Time = 3.595645E+04 days
2612    Date: 02/14/07 Time: 09:59:07 CPU Time: 0 0: 6:40.37 ( 400.37 sec) Binary
2614    Time Step No. = 1340 Elapsed Time = 3.597432E+04 days
2615    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 6:42.90 ( 402.90 sec) Binary
2617    Time Step No. = 1360 Elapsed Time = 3.641887E+04 days
2618    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 6:52.29 ( 412.29 sec) Binary
2620    Time Step No. = 1380 Elapsed Time = 3.645168E+04 days
2621    Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 6:55.23 ( 415.23 sec) Binary
2623    Time Step No. = 1400 Elapsed Time = 3.652004E+04 days
2624    Date: 02/14/07 Time: 09:59:30 CPU Time: 0 0: 7: 3.54 ( 423.54 sec) Binary
2626    Time Step No. = 1420 Elapsed Time = 3.652431E+04 days
2627    Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 7:12.52 ( 432.52 sec) Binary
2629    Time Step No. = 1440 Elapsed Time = 3.652431E+04 days
2630    Date: 02/14/07 Time: 09:59:42 CPU Time: 0 0: 7:15.51 ( 435.51 sec) Binary
2632    Time Step No. = 1460 Elapsed Time = 3.652431E+04 days
2633    Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 7:18.52 ( 438.52 sec) Binary
2635    Time Step No. = 1480 Elapsed Time = 3.652431E+04 days
2636    Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 7:21.89 ( 441.89 sec) Binary
2638    Time Step No. = 1500 Elapsed Time = 3.652442E+04 days
2639    Date: 02/14/07 Time: 09:59:52 CPU Time: 0 0: 7:25.40 ( 445.40 sec) Binary
2641    Time Step No. = 1520 Elapsed Time = 3.653418E+04 days
2642    Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 7:28.98 ( 448.98 sec) Binary
2644    Time Step No. = 1540 Elapsed Time = 3.666627E+04 days
2645    Date: 02/14/07 Time: 09:59:59 CPU Time: 0 0: 7:32.25 ( 452.25 sec) Binary
2647    Time Step No. = 1560 Elapsed Time = 3.668671E+04 days
2648    Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 7:35.05 ( 455.05 sec) Binary
2650    Time Step No. = 1580 Elapsed Time = 3.670728E+04 days
2651    Date: 02/14/07 Time: 10:00:11 CPU Time: 0 0: 7:43.51 ( 463.51 sec) Binary
2653    Time Step No. = 1600 Elapsed Time = 3.678237E+04 days
2654    Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 7:47.02 ( 467.02 sec) Binary
2656    Time Step No. = 1620 Elapsed Time = 3.716779E+04 days
2657    Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 7:57.83 ( 477.83 sec) Binary
2659    Time Step No. = 1640 Elapsed Time = 3.718347E+04 days
2660    Date: 02/14/07 Time: 10:00:27 CPU Time: 0 0: 8: 0.40 ( 480.40 sec) Binary
2662    Time Step No. = 1660 Elapsed Time = 3.724390E+04 days
2663    Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 8: 9.12 ( 489.12 sec) Binary
2665    Time Step No. = 1680 Elapsed Time = 3.730151E+04 days
2666    Date: 02/14/07 Time: 10:00:40 CPU Time: 0 0: 8:12.54 ( 492.54 sec) Binary
2668    Time Step No. = 1700 Elapsed Time = 3.752349E+04 days
2669    Date: 02/14/07 Time: 10:00:48 CPU Time: 0 0: 8:21.25 ( 501.25 sec) Binary
2671    Time Step No. = 1720 Elapsed Time = 3.773513E+04 days
2672    Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 8:24.96 ( 504.96 sec) Binary
2674    Time Step No. = 1740 Elapsed Time = 3.794042E+04 days
2675    Date: 02/14/07 Time: 10:01:01 CPU Time: 0 0: 8:33.96 ( 513.96 sec) Binary
2677    Time Step No. = 1760 Elapsed Time = 3.803760E+04 days
2678    Date: 02/14/07 Time: 10:01:05 CPU Time: 0 0: 8:37.46 ( 517.46 sec) Binary
2680    Time Step No. = 1780 Elapsed Time = 3.956208E+04 days
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2681   Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 8:46.92 ( 526.92 sec) Binary
2683   Time Step No. = 1800 Elapsed Time = 4.088771E+04 days
2684   Date: 02/14/07 Time: 10:01:29 CPU Time: 0 0: 9: 2.11 ( 542.11 sec) Binary
2686   Time Step No. = 1820 Elapsed Time = 4.089527E+04 days
2687   Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 9: 4.35 ( 544.35 sec) Binary
2689   Time Step No. = 1840 Elapsed Time = 4.155094E+04 days
2690   Date: 02/14/07 Time: 10:01:36 CPU Time: 0 0: 9: 8.61 ( 548.61 sec) Binary
2692   Time Step No. = 1860 Elapsed Time = 4.294061E+04 days
2693   Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 9:20.17 ( 560.17 sec) Binary
2695   Time Step No. = 1880 Elapsed Time = 4.301587E+04 days
2696   Date: 02/14/07 Time: 10:01:51 CPU Time: 0 0: 9:23.59 ( 563.59 sec) Binary
2698   Time Step No. = 1900 Elapsed Time = 4.760255E+04 days
2699   Date: 02/14/07 Time: 10:01:57 CPU Time: 0 0: 9:29.87 ( 569.87 sec) Binary
2701   Time Step No. = 1920 Elapsed Time = 4.987005E+04 days
2702   Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 9:42.61 ( 582.61 sec) Binary
2704   Time Step No. = 1940 Elapsed Time = 4.996373E+04 days
2705   Date: 02/14/07 Time: 10:02:13 CPU Time: 0 0: 9:46.10 ( 586.10 sec) Binary
2707   Time Step No. = 1960 Elapsed Time = 5.010423E+04 days
2708   Date: 02/14/07 Time: 10:02:22 CPU Time: 0 0: 9:54.39 ( 594.39 sec) Binary
2710   Time Step No. = 1980 Elapsed Time = 5.037876E+04 days
2711   Date: 02/14/07 Time: 10:02:31 CPU Time: 0 0:10: 3.37 ( 603.37 sec) Binary
2713   Time Step No. = 2000 Elapsed Time = 5.039333E+04 days
2714   Date: 02/14/07 Time: 10:02:33 CPU Time: 0 0:10: 5.81 ( 605.81 sec) Binary
2716   Time Step No. = 2020 Elapsed Time = 5.152954E+04 days
2717   Date: 02/14/07 Time: 10:02:38 CPU Time: 0 0:10:10.98 ( 610.98 sec) Binary
2719   Time Step No. = 2040 Elapsed Time = 5.170355E+04 days
2720   Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0:10:21.44 ( 621.44 sec) Binary
2722   Time Step No. = 2060 Elapsed Time = 5.179583E+04 days
2723   Date: 02/14/07 Time: 10:02:58 CPU Time: 0 0:10:30.92 ( 630.92 sec) Binary
2725   Time Step No. = 2080 Elapsed Time = 5.180198E+04 days
2726   Date: 02/14/07 Time: 10:03:00 CPU Time: 0 0:10:33.09 ( 633.09 sec) Binary
2728   Time Step No. = 2100 Elapsed Time = 5.184257E+04 days
2729   Date: 02/14/07 Time: 10:03:08 CPU Time: 0 0:10:40.75 ( 640.75 sec) Binary
2731   Time Step No. = 2120 Elapsed Time = 5.188772E+04 days
2732   Date: 02/14/07 Time: 10:03:11 CPU Time: 0 0:10:43.90 ( 643.90 sec) Binary
2734   Time Step No. = 2140 Elapsed Time = 5.191531E+04 days
2735   Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0:10:52.07 ( 652.07 sec) Binary
2737   Time Step No. = 2160 Elapsed Time = 5.208117E+04 days
2738   Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0:10:55.69 ( 655.69 sec) Binary
2740   Time Step No. = 2180 Elapsed Time = 5.738239E+04 days
2741   Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0:11: 2.72 ( 662.72 sec) Binary
2743   Time Step No. = 2200 Elapsed Time = 5.874693E+04 days
2744   Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0:11:16.72 ( 676.72 sec) Binary
2746   Time Step No. = 2220 Elapsed Time = 5.877274E+04 days
2747   Date: 02/14/07 Time: 10:03:47 CPU Time: 0 0:11:19.53 ( 679.53 sec) Binary
2749   Time Step No. = 2240 Elapsed Time = 6.101085E+04 days
2750   Date: 02/14/07 Time: 10:03:52 CPU Time: 0 0:11:24.32 ( 684.32 sec) Binary
2752   Time Step No. = 2260 Elapsed Time = 6.281765E+04 days
2753   Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0:11:37.13 ( 697.13 sec) Binary
2755   Time Step No. = 2280 Elapsed Time = 6.294611E+04 days
2756   Date: 02/14/07 Time: 10:04:09 CPU Time: 0 0:11:40.77 ( 700.77 sec) Binary
2758   Time Step No. = 2300 Elapsed Time = 6.313878E+04 days
2759   Date: 02/14/07 Time: 10:04:17 CPU Time: 0 0:11:48.74 ( 708.74 sec) Binary
2761   Time Step No. = 2320 Elapsed Time = 6.361068E+04 days
2762   Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0:11:52.88 ( 712.88 sec) Binary
2764   Time Step No. = 2340 Elapsed Time = 6.737769E+04 days
2765   Date: 02/14/07 Time: 10:04:35 CPU Time: 0 0:12: 7.53 ( 727.53 sec) Binary
2767   Time Step No. = 2360 Elapsed Time = 6.740478E+04 days
2768   Date: 02/14/07 Time: 10:04:38 CPU Time: 0 0:12:10.40 ( 730.40 sec) Binary
2770   Time Step No. = 2380 Elapsed Time = 6.741391E+04 days
2771   Date: 02/14/07 Time: 10:04:46 CPU Time: 0 0:12:18.11 ( 738.11 sec) Binary
2773   Time Step No. = 2400 Elapsed Time = 6.761291E+04 days
2774   Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0:12:21.91 ( 741.91 sec) Binary
2776   Time Step No. = 2420 Elapsed Time = 6.773452E+04 days
2777   Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0:12:30.71 ( 750.71 sec) Binary
2779   Time Step No. = 2440 Elapsed Time = 6.776699E+04 days
2780   Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0:12:39.15 ( 759.15 sec) Binary
2782   Time Step No. = 2460 Elapsed Time = 6.779795E+04 days
2783   Date: 02/14/07 Time: 10:05:10 CPU Time: 0 0:12:42.10 ( 762.10 sec) Binary
2785   Time Step No. = 2480 Elapsed Time = 7.048314E+04 days
2786   Date: 02/14/07 Time: 10:05:15 CPU Time: 0 0:12:46.90 ( 766.90 sec) Binary
2788   Time Step No. = 2500 Elapsed Time = 8.118433E+04 days
2789   Date: 02/14/07 Time: 10:05:25 CPU Time: 0 0:12:56.52 ( 776.52 sec) Binary
2791   Time Step No. = 2520 Elapsed Time = 8.428954E+04 days
2792   Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0:13: 8.96 ( 788.96 sec) Binary
2794   Time Step No. = 2540 Elapsed Time = 8.439398E+04 days
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2795	Date: 02/14/07 Time: 10:05:41 CPU Time: 0 0:13:12.55 ( 792.55 sec) Binary
2797	Time Step No. = 2560 Elapsed Time = 8.992246E+04 days
2798	Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0:13:19.01 ( 799.01 sec) Binary
2800	Time Step No. = 2580 Elapsed Time = 9.139559E+04 days
2801	Date: 02/14/07 Time: 10:05:59 CPU Time: 0 0:13:30.78 ( 810.78 sec) Binary
2803	Time Step No. = 2600 Elapsed Time = 9.153888E+04 days
2804	Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0:13:37.89 ( 817.89 sec) Binary
2806	Time Step No. = 2620 Elapsed Time = 9.175238E+04 days
2807	Date: 02/14/07 Time: 10:06:14 CPU Time: 0 0:13:45.32 ( 825.32 sec) Binary
2809	Time Step No. = 2640 Elapsed Time = 9.184598E+04 days
2810	Date: 02/14/07 Time: 10:06:22 CPU Time: 0 0:13:53.65 ( 833.65 sec) Binary
2812	Time Step No. = 2660 Elapsed Time = 9.190019E+04 days
2813	Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0:14: 4.08 ( 844.08 sec) Binary
2815	Time Step No. = 2680 Elapsed Time = 9.194215E+04 days
2816	Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0:14:11.21 ( 851.21 sec) Binary
2818	Time Step No. = 2700 Elapsed Time = 9.204832E+04 days
2819	Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0:14:19.76 ( 859.76 sec) Binary
2821	Time Step No. = 2720 Elapsed Time = 9.208378E+04 days
2822	Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0:14:30.59 ( 870.59 sec) Binary
2824	Time Step No. = 2740 Elapsed Time = 9.211140E+04 days
2825	Date: 02/14/07 Time: 10:07:09 CPU Time: 0 0:14:40.74 ( 880.74 sec) Binary
2827	Time Step No. = 2760 Elapsed Time = 9.214645E+04 days
2828	Date: 02/14/07 Time: 10:07:21 CPU Time: 0 0:14:52.32 ( 892.32 sec) Binary
2830	Time Step No. = 2780 Elapsed Time = 9.216828E+04 days
2831	Date: 02/14/07 Time: 10:07:31 CPU Time: 0 0:15: 2.56 ( 902.56 sec) Binary
2833	Time Step No. = 2800 Elapsed Time = 9.218932E+04 days
2834	Date: 02/14/07 Time: 10:07:41 CPU Time: 0 0:15:11.69 ( 911.69 sec) Binary
2836	Time Step No. = 2820 Elapsed Time = 9.220924E+04 days
2837	Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0:15:21.53 ( 921.53 sec) Binary
2839	Time Step No. = 2840 Elapsed Time = 9.222973E+04 days
2840	Date: 02/14/07 Time: 10:08:00 CPU Time: 0 0:15:31.06 ( 931.06 sec) Binary
2842	Time Step No. = 2860 Elapsed Time = 9.225032E+04 days
2843	Date: 02/14/07 Time: 10:08:09 CPU Time: 0 0:15:40.31 ( 940.31 sec) Binary
2845	Time Step No. = 2880 Elapsed Time = 9.227070E+04 days
2846	Date: 02/14/07 Time: 10:08:21 CPU Time: 0 0:15:51.78 ( 951.78 sec) Binary
2848	Time Step No. = 2900 Elapsed Time = 9.229232E+04 days
2849	Date: 02/14/07 Time: 10:08:32 CPU Time: 0 0:16: 2.69 ( 962.69 sec) Binary
2851	Time Step No. = 2920 Elapsed Time = 9.231037E+04 days
2852	Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0:16:11.94 ( 971.94 sec) Binary
2854	Time Step No. = 2940 Elapsed Time = 9.232895E+04 days
2855	Date: 02/14/07 Time: 10:08:50 CPU Time: 0 0:16:20.61 ( 980.61 sec) Binary
2857	Time Step No. = 2960 Elapsed Time = 9.234552E+04 days
2858	Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0:16:28.50 ( 988.50 sec) Binary
2860	Time Step No. = 2980 Elapsed Time = 9.236376E+04 days
2861	Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0:16:36.64 ( 996.64 sec) Binary
2863	Time Step No. = 3000 Elapsed Time = 9.238011E+04 days
2864	Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0:16:44.37 ( 1004.37 sec) Binary
2866	Time Step No. = 3020 Elapsed Time = 9.239686E+04 days
2867	Date: 02/14/07 Time: 10:09:21 CPU Time: 0 0:16:51.55 ( 1011.55 sec) Binary
2869	Time Step No. = 3040 Elapsed Time = 9.241242E+04 days
2870	Date: 02/14/07 Time: 10:09:29 CPU Time: 0 0:16:59.27 ( 1019.27 sec) Binary
2872	Time Step No. = 3060 Elapsed Time = 9.242781E+04 days
2873	Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0:17: 6.44 ( 1026.44 sec) Binary
2875	Time Step No. = 3080 Elapsed Time = 9.244312E+04 days
2876	Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0:17:14.18 ( 1034.18 sec) Binary
2878	Time Step No. = 3100 Elapsed Time = 9.245725E+04 days
2879	Date: 02/14/07 Time: 10:09:51 CPU Time: 0 0:17:21.35 ( 1041.35 sec) Binary
2881	Time Step No. = 3120 Elapsed Time = 9.247181E+04 days
2882	Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0:17:28.80 ( 1048.80 sec) Binary
2884	Time Step No. = 3140 Elapsed Time = 9.248478E+04 days
2885	Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0:17:35.29 ( 1055.29 sec) Binary
2887	Time Step No. = 3160 Elapsed Time = 9.249861E+04 days
2888	Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0:17:42.01 ( 1062.01 sec) Binary
2890	Time Step No. = 3180 Elapsed Time = 9.251140E+04 days
2891	Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0:17:47.89 ( 1067.89 sec) Binary
2893	Time Step No. = 3200 Elapsed Time = 9.252410E+04 days
2894	Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0:17:54.18 ( 1074.18 sec) Binary
2896	Time Step No. = 3220 Elapsed Time = 9.253757E+04 days
2897	Date: 02/14/07 Time: 10:10:30 CPU Time: 0 0:17:59.95 ( 1079.95 sec) Binary
2899	Time Step No. = 3240 Elapsed Time = 9.255098E+04 days
2900	Date: 02/14/07 Time: 10:10:35 CPU Time: 0 0:18: 5.71 ( 1085.71 sec) Binary
2902	Time Step No. = 3260 Elapsed Time = 9.256381E+04 days
2903	Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0:18:11.99 ( 1091.99 sec) Binary
2905	Time Step No. = 3280 Elapsed Time = 9.257743E+04 days
2906	Date: 02/14/07 Time: 10:10:47 CPU Time: 0 0:18:17.75 ( 1097.75 sec) Binary
2908	Time Step No. = 3300 Elapsed Time = 9.259099E+04 days
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2909    Date: 02/14/07 Time: 10:10:54 CPU Time: 0 0:18:24.04 ( 1104.04 sec) Binary
2911    Time Step No. = 3320 Elapsed Time = 9.260441E+04 days
2912    Date: 02/14/07 Time: 10:10:59 CPU Time: 0 0:18:29.81 ( 1109.81 sec) Binary
2914    Time Step No. = 3340 Elapsed Time = 9.261774E+04 days
2915    Date: 02/14/07 Time: 10:11:06 CPU Time: 0 0:18:36.11 ( 1116.11 sec) Binary
2917    Time Step No. = 3360 Elapsed Time = 9.263189E+04 days
2918    Date: 02/14/07 Time: 10:11:12 CPU Time: 0 0:18:41.88 ( 1121.88 sec) Binary
2920    Time Step No. = 3380 Elapsed Time = 9.264596E+04 days
2921    Date: 02/14/07 Time: 10:11:17 CPU Time: 0 0:18:47.65 ( 1127.65 sec) Binary
2923    Time Step No. = 3400 Elapsed Time = 9.265943E+04 days
2924    Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0:18:53.93 ( 1133.93 sec) Binary
2926    Time Step No. = 3420 Elapsed Time = 9.267372E+04 days
2927    Date: 02/14/07 Time: 10:11:29 CPU Time: 0 0:18:59.70 ( 1139.70 sec) Binary
2929    Time Step No. = 3440 Elapsed Time = 9.268795E+04 days
2930    Date: 02/14/07 Time: 10:11:36 CPU Time: 0 0:19: 5.98 ( 1145.98 sec) Binary
2932    Time Step No. = 3460 Elapsed Time = 9.270205E+04 days
2933    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0:19:11.76 ( 1151.76 sec) Binary
2935    Time Step No. = 3480 Elapsed Time = 9.271604E+04 days
2936    Date: 02/14/07 Time: 10:11:48 CPU Time: 0 0:19:18.05 ( 1158.05 sec) Binary
2938    Time Step No. = 3500 Elapsed Time = 9.273088E+04 days
2939    Date: 02/14/07 Time: 10:11:54 CPU Time: 0 0:19:24.26 ( 1164.26 sec) Binary
2941    Time Step No. = 3520 Elapsed Time = 9.274566E+04 days
2942    Date: 02/14/07 Time: 10:12:00 CPU Time: 0 0:19:30.48 ( 1170.48 sec) Binary
2944    Time Step No. = 3540 Elapsed Time = 9.275979E+04 days
2945    Date: 02/14/07 Time: 10:12:07 CPU Time: 0 0:19:37.23 ( 1177.23 sec) Binary
2947    Time Step No. = 3560 Elapsed Time = 9.277479E+04 days
2948    Date: 02/14/07 Time: 10:12:13 CPU Time: 0 0:19:43.43 ( 1183.43 sec) Binary
2950    Time Step No. = 3580 Elapsed Time = 9.278974E+04 days
2951    Date: 02/14/07 Time: 10:12:20 CPU Time: 0 0:19:50.19 ( 1190.19 sec) Binary
2953    Time Step No. = 3600 Elapsed Time = 9.280453E+04 days
2954    Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0:19:56.38 ( 1196.38 sec) Binary
2956    Time Step No. = 3620 Elapsed Time = 9.281975E+04 days
2957    Date: 02/14/07 Time: 10:12:32 CPU Time: 0 0:20: 2.59 ( 1202.59 sec) Binary
2959    Time Step No. = 3640 Elapsed Time = 9.283533E+04 days
2960    Date: 02/14/07 Time: 10:12:39 CPU Time: 0 0:20: 9.36 ( 1209.36 sec) Binary
2962    Time Step No. = 3660 Elapsed Time = 9.285137E+04 days
2963    Date: 02/14/07 Time: 10:12:45 CPU Time: 0 0:20:15.56 ( 1215.56 sec) Binary
2965    Time Step No. = 3680 Elapsed Time = 9.286675E+04 days
2966    Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0:20:22.31 ( 1222.31 sec) Binary
2968    Time Step No. = 3700 Elapsed Time = 9.288250E+04 days
2969    Date: 02/14/07 Time: 10:12:58 CPU Time: 0 0:20:28.51 ( 1228.51 sec) Binary
2971    Time Step No. = 3720 Elapsed Time = 9.289928E+04 days
2972    Date: 02/14/07 Time: 10:13:05 CPU Time: 0 0:20:35.27 ( 1235.27 sec) Binary
2974    Time Step No. = 3740 Elapsed Time = 9.291592E+04 days
2975    Date: 02/14/07 Time: 10:13:11 CPU Time: 0 0:20:41.48 ( 1241.48 sec) Binary
2977    Time Step No. = 3760 Elapsed Time = 9.293247E+04 days
2978    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0:20:47.36 ( 1247.36 sec) Binary
2980    Time Step No. = 3780 Elapsed Time = 9.294882E+04 days
2981    Date: 02/14/07 Time: 10:13:23 CPU Time: 0 0:20:53.65 ( 1253.65 sec) Binary
2983    Time Step No. = 3800 Elapsed Time = 9.296682E+04 days
2984    Date: 02/14/07 Time: 10:13:29 CPU Time: 0 0:20:59.43 ( 1259.43 sec) Binary
2986    Time Step No. = 3820 Elapsed Time = 9.298414E+04 days
2987    Date: 02/14/07 Time: 10:13:36 CPU Time: 0 0:21: 5.74 ( 1265.74 sec) Binary
2989    Time Step No. = 3840 Elapsed Time = 9.300189E+04 days
2990    Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0:21:11.53 ( 1271.53 sec) Binary
2992    Time Step No. = 3860 Elapsed Time = 9.302014E+04 days
2993    Date: 02/14/07 Time: 10:13:47 CPU Time: 0 0:21:17.32 ( 1277.32 sec) Binary
2995    Time Step No. = 3880 Elapsed Time = 9.303884E+04 days
2996    Date: 02/14/07 Time: 10:13:53 CPU Time: 0 0:21:23.61 ( 1283.61 sec) Binary
2998    Time Step No. = 3900 Elapsed Time = 9.305808E+04 days
2999    Date: 02/14/07 Time: 10:13:59 CPU Time: 0 0:21:29.41 ( 1289.41 sec) Binary
3001    Time Step No. = 3920 Elapsed Time = 9.307720E+04 days
3002    Date: 02/14/07 Time: 10:14:06 CPU Time: 0 0:21:35.98 ( 1295.98 sec) Binary
3004    Time Step No. = 3940 Elapsed Time = 9.309678E+04 days
3005    Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:21:42.19 ( 1302.19 sec) Binary
3007    Time Step No. = 3960 Elapsed Time = 9.311692E+04 days
3008    Date: 02/14/07 Time: 10:14:19 CPU Time: 0 0:21:48.91 ( 1308.91 sec) Binary
3010    Time Step No. = 3980 Elapsed Time = 9.313829E+04 days
3011    Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0:21:55.11 ( 1315.11 sec) Binary
3013    Time Step No. = 4000 Elapsed Time = 9.316104E+04 days
3014    Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:22: 1.47 ( 1321.47 sec) Binary
3016    Time Step No. = 4020 Elapsed Time = 9.318366E+04 days
3017    Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:22: 8.23 ( 1328.23 sec) Binary
3019    Time Step No. = 4040 Elapsed Time = 9.320767E+04 days
3020    Date: 02/14/07 Time: 10:14:44 CPU Time: 0 0:22:14.39 ( 1334.39 sec) Binary
3022    Time Step No. = 4060 Elapsed Time = 9.323324E+04 days
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3023    Date: 02/14/07 Time: 10:14:51 CPU Time: 0 0:22:20.62 ( 1340.62 sec) Binary
3025    Time Step No. = 4080 Elapsed Time = 9.325948E+04 days
3026    Date: 02/14/07 Time: 10:14:57 CPU Time: 0 0:22:27.46 ( 1347.46 sec) Binary
3028    Time Step No. = 4100 Elapsed Time = 9.328834E+04 days
3029    Date: 02/14/07 Time: 10:15:04 CPU Time: 0 0:22:33.82 ( 1353.82 sec) Binary
3031    Time Step No. = 4120 Elapsed Time = 9.332128E+04 days
3032    Date: 02/14/07 Time: 10:15:10 CPU Time: 0 0:22:40.33 ( 1360.33 sec) Binary
3034    Time Step No. = 4140 Elapsed Time = 9.336491E+04 days
3035    Date: 02/14/07 Time: 10:15:18 CPU Time: 0 0:22:47.50 ( 1367.50 sec) Binary
3037    Time Step No. = 4160 Elapsed Time = 9.361676E+04 days
3038    Date: 02/14/07 Time: 10:15:25 CPU Time: 0 0:22:54.75 ( 1374.75 sec) Binary
3040    Time Step No. = 4180 Elapsed Time = 9.422795E+04 days
3041    Date: 02/14/07 Time: 10:15:34 CPU Time: 0 0:23: 4.12 ( 1384.12 sec) Binary
3043    Time Step No. = 4200 Elapsed Time = 9.893912E+04 days
3044    Date: 02/14/07 Time: 10:15:42 CPU Time: 0 0:23:12.17 ( 1392.17 sec) Binary
3046    Time Step No. = 4220 Elapsed Time = 1.009195E+05 days
3047    Date: 02/14/07 Time: 10:15:56 CPU Time: 0 0:23:26.30 ( 1406.30 sec) Binary
3049    Time Step No. = 4240 Elapsed Time = 1.009222E+05 days
3050    Date: 02/14/07 Time: 10:16:03 CPU Time: 0 0:23:32.98 ( 1412.98 sec) Binary
3052    Time Step No. = 4260 Elapsed Time = 1.009250E+05 days
3053    Date: 02/14/07 Time: 10:16:10 CPU Time: 0 0:23:39.31 ( 1419.31 sec) Binary
3055    Time Step No. = 4280 Elapsed Time = 1.009279E+05 days
3056    Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0:23:45.65 ( 1425.65 sec) Binary
3058    Time Step No. = 4300 Elapsed Time = 1.009308E+05 days
3059    Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0:23:52.56 ( 1432.56 sec) Binary
3061    Time Step No. = 4320 Elapsed Time = 1.009339E+05 days
3062    Date: 02/14/07 Time: 10:16:29 CPU Time: 0 0:23:58.88 ( 1438.88 sec) Binary
3064    Time Step No. = 4340 Elapsed Time = 1.009372E+05 days
3065    Date: 02/14/07 Time: 10:16:36 CPU Time: 0 0:24: 5.23 ( 1445.23 sec) Binary
3067    Time Step No. = 4360 Elapsed Time = 1.009405E+05 days
3068    Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0:24:12.13 ( 1452.13 sec) Binary
3070    Time Step No. = 4380 Elapsed Time = 1.009440E+05 days
3071    Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0:24:21.23 ( 1461.23 sec) Binary
3073    Time Step No. = 4400 Elapsed Time = 1.009468E+05 days
3074    Date: 02/14/07 Time: 10:16:54 CPU Time: 0 0:24:23.19 ( 1463.19 sec) Binary
3076    Time Step No. = 4420 Elapsed Time = 1.011909E+05 days
3077    Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0:24:27.03 ( 1467.03 sec) Binary
3079    Time Step No. = 4440 Elapsed Time = 1.024529E+05 days
3080    Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0:24:39.78 ( 1479.78 sec) Binary
3082    Time Step No. = 4460 Elapsed Time = 1.026770E+05 days
3083    Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0:24:43.55 ( 1483.55 sec) Binary
3085    Time Step No. = 4480 Elapsed Time = 1.041130E+05 days
3086    Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0:24:56.86 ( 1496.86 sec) Binary
3088    Time Step No. = 4500 Elapsed Time = 1.041673E+05 days
3089    Date: 02/14/07 Time: 10:17:33 CPU Time: 0 0:25: 1.82 ( 1501.82 sec) Binary
3091    Time Step No. = 4520 Elapsed Time = 1.049488E+05 days
3092    Date: 02/14/07 Time: 10:17:42 CPU Time: 0 0:25:11.13 ( 1511.13 sec) Binary
3094    Time Step No. = 4540 Elapsed Time = 1.066226E+05 days
3095    Date: 02/14/07 Time: 10:17:52 CPU Time: 0 0:25:21.22 ( 1521.22 sec) Binary
3097    Time Step No. = 4560 Elapsed Time = 1.087496E+05 days
3098    Date: 02/14/07 Time: 10:18:01 CPU Time: 0 0:25:29.93 ( 1529.93 sec) Binary
3100    Time Step No. = 4580 Elapsed Time = 1.143056E+05 days
3101    Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0:25:35.01 ( 1535.01 sec) Binary
3103    Time Step No. = 4600 Elapsed Time = 1.395547E+05 days
3104    Date: 02/14/07 Time: 10:18:15 CPU Time: 0 0:25:43.98 ( 1543.98 sec) Binary
3106    Time Step No. = 4620 Elapsed Time = 1.524241E+05 days
3107    Date: 02/14/07 Time: 10:18:26 CPU Time: 0 0:25:54.92 ( 1554.92 sec) Binary
3109    Time Step No. = 4640 Elapsed Time = 1.553196E+05 days
3110    Date: 02/14/07 Time: 10:18:35 CPU Time: 0 0:26: 4.08 ( 1564.08 sec) Binary
3112    Time Step No. = 4660 Elapsed Time = 1.591320E+05 days
3113    Date: 02/14/07 Time: 10:18:44 CPU Time: 0 0:26:12.77 ( 1572.77 sec) Binary
3115    Time Step No. = 4680 Elapsed Time = 1.721310E+05 days
3116    Date: 02/14/07 Time: 10:18:53 CPU Time: 0 0:26:22.15 ( 1582.15 sec) Binary
3118    Time Step No. = 4700 Elapsed Time = 1.944112E+05 days
3119    Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0:26:30.77 ( 1590.77 sec) Binary
3121    Time Step No. = 4720 Elapsed Time = 1.986996E+05 days
3122    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0:26:40.02 ( 1600.02 sec) Binary
3124    Time Step No. = 4740 Elapsed Time = 2.057306E+05 days
3125    Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0:26:47.82 ( 1607.82 sec) Binary
3127    Time Step No. = 4760 Elapsed Time = 2.132912E+05 days
3128    Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0:26:55.61 ( 1615.61 sec) Binary
3130    Time Step No. = 4780 Elapsed Time = 2.193162E+05 days
3131    Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0:27: 4.02 ( 1624.02 sec) Binary
3133    Time Step No. = 4800 Elapsed Time = 2.226687E+05 days
3134    Date: 02/14/07 Time: 10:19:45 CPU Time: 0 0:27:13.81 ( 1633.81 sec) Binary
3136    Time Step No. = 4820 Elapsed Time = 2.259834E+05 days
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3137    Date: 02/14/07 Time: 10:19:52 CPU Time: 0 0:27:20.63 ( 1640.63 sec) Binary
3139    Time Step No. = 4840 Elapsed Time = 2.712249E+05 days
3140    Date: 02/14/07 Time: 10:19:58 CPU Time: 0 0:27:26.68 ( 1646.68 sec) Binary
3142    Time Step No. = 4860 Elapsed Time = 3.652431E+05 days
3143    Date: 02/14/07 Time: 10:20:06 CPU Time: 0 0:27:34.69 ( 1654.69 sec) Binary
3145    Time Step No. = 4880 Elapsed Time = 3.652444E+05 days
3146    Date: 02/14/07 Time: 10:20:08 CPU Time: 0 0:27:37.49 ( 1657.49 sec) Binary
3148    Time Step No. = 4900 Elapsed Time = 3.653026E+05 days
3149    Date: 02/14/07 Time: 10:20:12 CPU Time: 0 0:27:40.63 ( 1660.63 sec) Binary
3151    Time Step No. = 4920 Elapsed Time = 3.655257E+05 days
3152    Date: 02/14/07 Time: 10:20:18 CPU Time: 0 0:27:47.05 ( 1667.05 sec) Binary
3154    Time Step No. = 4940 Elapsed Time = 3.664875E+05 days
3155    Date: 02/14/07 Time: 10:20:25 CPU Time: 0 0:27:54.29 ( 1674.29 sec) Binary
3157    Time Step No. = 4960 Elapsed Time = 3.665925E+05 days
3158    Date: 02/14/07 Time: 10:20:27 CPU Time: 0 0:27:55.94 ( 1675.94 sec) Binary
3160    Time Step No. = 4980 Elapsed Time = 3.668305E+05 days
3161    Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0:27:59.13 ( 1679.13 sec) Binary
3163    Time Step No. = 5000 Elapsed Time = 3.681194E+05 days
3164    Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0:28: 6.47 ( 1686.47 sec) Binary
3166    Time Step No. = 5020 Elapsed Time = 3.709195E+05 days
3167    Date: 02/14/07 Time: 10:20:44 CPU Time: 0 0:28:13.19 ( 1693.19 sec) Binary
3169    Time Step No. = 5040 Elapsed Time = 4.282789E+05 days
3170    Date: 02/14/07 Time: 10:20:52 CPU Time: 0 0:28:20.55 ( 1700.55 sec) Binary
3172    Time Step No. = 5060 Elapsed Time = 4.653183E+05 days
3173    Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0:28:28.25 ( 1708.25 sec) Binary
3175    Time Step No. = 5080 Elapsed Time = 4.900809E+05 days
3176    Date: 02/14/07 Time: 10:21:06 CPU Time: 0 0:28:35.17 ( 1715.17 sec) Binary
3178    Time Step No. = 5100 Elapsed Time = 5.157774E+05 days
3179    Date: 02/14/07 Time: 10:21:12 CPU Time: 0 0:28:41.18 ( 1721.18 sec) Binary
3181    Time Step No. = 5120 Elapsed Time = 5.494751E+05 days
3182    Date: 02/14/07 Time: 10:21:19 CPU Time: 0 0:28:47.85 ( 1727.85 sec) Binary
3184    Time Step No. = 5140 Elapsed Time = 5.579649E+05 days
3185    Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0:28:58.11 ( 1738.11 sec) Binary
3187    Time Step No. = 5160 Elapsed Time = 5.584439E+05 days
3188    Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0:29: 1.74 ( 1741.74 sec) Binary
3190    Time Step No. = 5180 Elapsed Time = 5.690395E+05 days
3191    Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0:29: 7.97 ( 1747.97 sec) Binary
3193    Time Step No. = 5200 Elapsed Time = 5.825788E+05 days
3194    Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0:29:17.13 ( 1757.13 sec) Binary
3196    Time Step No. = 5220 Elapsed Time = 5.945658E+05 days
3197    Date: 02/14/07 Time: 10:21:55 CPU Time: 0 0:29:23.17 ( 1763.17 sec) Binary
3199    Time Step No. = 5240 Elapsed Time = 6.257360E+05 days
3200    Date: 02/14/07 Time: 10:22:01 CPU Time: 0 0:29:29.47 ( 1769.47 sec) Binary
3202    Time Step No. = 5260 Elapsed Time = 6.705437E+05 days
3203    Date: 02/14/07 Time: 10:22:10 CPU Time: 0 0:29:38.51 ( 1778.51 sec) Binary
3205    Time Step No. = 5280 Elapsed Time = 7.337650E+05 days
3206    Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0:29:47.88 ( 1787.88 sec) Binary
3208    Time Step No. = 5300 Elapsed Time = 7.882779E+05 days
3209    Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0:29:56.92 ( 1796.92 sec) Binary
3211    Time Step No. = 5320 Elapsed Time = 9.160867E+05 days
3212    Date: 02/14/07 Time: 10:22:38 CPU Time: 0 0:30: 6.98 ( 1806.98 sec) Binary
3214    Time Step No. = 5340 Elapsed Time = 9.335625E+05 days
3215    Date: 02/14/07 Time: 10:22:48 CPU Time: 0 0:30:16.46 ( 1816.46 sec) Binary
3217    Time Step No. = 5360 Elapsed Time = 9.974253E+05 days
3218    Date: 02/14/07 Time: 10:22:57 CPU Time: 0 0:30:25.13 ( 1825.13 sec) Binary
3220    Time Step No. = 5380 Elapsed Time = 1.042229E+06 days
3221    Date: 02/14/07 Time: 10:23:03 CPU Time: 0 0:30:31.16 ( 1831.16 sec) Binary
3223    Time Step No. = 5400 Elapsed Time = 1.260820E+06 days
3224    Date: 02/14/07 Time: 10:23:11 CPU Time: 0 0:30:39.28 ( 1839.28 sec) Binary
3226    Time Step No. = 5420 Elapsed Time = 1.334337E+06 days
3227    Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0:30:47.75 ( 1847.75 sec) Binary
3229    Time Step No. = 5440 Elapsed Time = 1.345331E+06 days
3230    Date: 02/14/07 Time: 10:23:24 CPU Time: 0 0:30:52.06 ( 1852.06 sec) Binary
3232    Time Step No. = 5460 Elapsed Time = 1.427559E+06 days
3233    Date: 02/14/07 Time: 10:23:34 CPU Time: 0 0:31: 2.34 ( 1862.34 sec) Binary
3235    Time Step No. = 5480 Elapsed Time = 1.441381E+06 days
3236    Date: 02/14/07 Time: 10:23:41 CPU Time: 0 0:31: 9.28 ( 1869.28 sec) Binary
3238    Time Step No. = 5500 Elapsed Time = 1.579545E+06 days
3239    Date: 02/14/07 Time: 10:23:49 CPU Time: 0 0:31:17.25 ( 1877.25 sec) Binary
3241    Time Step No. = 5520 Elapsed Time = 1.722127E+06 days
3242    Date: 02/14/07 Time: 10:23:58 CPU Time: 0 0:31:26.76 ( 1886.76 sec) Binary
3244    Time Step No. = 5540 Elapsed Time = 1.729742E+06 days
3245    Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0:31:30.25 ( 1890.25 sec) Binary
3247    Time Step No. = 5560 Elapsed Time = 1.756478E+06 days
3248    Date: 02/14/07 Time: 10:24:09 CPU Time: 0 0:31:37.26 ( 1897.26 sec) Binary
3250    Time Step No. = 5580 Elapsed Time = 1.769620E+06 days
```

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 3251     Date: 02/14/07 Time: 10:24:17 CPU Time: 0 0:31:45.78 ( 1905.78 sec) Binary
 3253     Time Step No. = 5600 Elapsed Time = 1.839288E+06 days
 3254     Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0:31:53.40 ( 1913.40 sec) Binary
 3256     Time Step No. = 5620 Elapsed Time = 2.169142E+06 days
 3257     Date: 02/14/07 Time: 10:24:33 CPU Time: 0 0:32: 1.39 ( 1921.39 sec) Binary
 3259     Time Step No. = 5640 Elapsed Time = 2.272625E+06 days
 3260     Date: 02/14/07 Time: 10:24:39 CPU Time: 0 0:32: 6.85 ( 1926.85 sec) Binary
 3262     Time Step No. = 5660 Elapsed Time = 2.337198E+06 days
 3263     Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0:32:14.32 ( 1934.32 sec) Binary
 3265     Time Step No. = 5680 Elapsed Time = 2.341430E+06 days
 3266     Date: 02/14/07 Time: 10:24:54 CPU Time: 0 0:32:21.87 ( 1941.87 sec) Binary
 3268     Time Step No. = 5700 Elapsed Time = 2.377641E+06 days
 3269     Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0:32:27.06 ( 1947.06 sec) Binary
 3271     Time Step No. = 5720 Elapsed Time = 2.750209E+06 days
 3272     Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0:32:33.63 ( 1953.63 sec) Binary
 3274     Time Step No. = 5740 Elapsed Time = 2.753701E+06 days
 3275     Date: 02/14/07 Time: 10:25:14 CPU Time: 0 0:32:41.92 ( 1961.92 sec) Binary
 3277     Time Step No. = 5760 Elapsed Time = 2.765715E+06 days
 3278     Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0:32:47.88 ( 1967.88 sec) Binary
 3280     Time Step No. = 5780 Elapsed Time = 2.912561E+06 days
 3281     Date: 02/14/07 Time: 10:25:27 CPU Time: 0 0:32:55.64 ( 1975.64 sec) Binary
 3283     Time Step No. = 5800 Elapsed Time = 3.153612E+06 days
 3284     Date: 02/14/07 Time: 10:25:36 CPU Time: 0 0:33: 3.99 ( 1983.99 sec) Binary
 3286     Time Step No. = 5820 Elapsed Time = 3.155082E+06 days
 3287     Date: 02/14/07 Time: 10:25:44 CPU Time: 0 0:33:11.82 ( 1991.82 sec) Binary
 3289     Time Step No. = 5840 Elapsed Time = 3.160573E+06 days
 3290     Date: 02/14/07 Time: 10:25:48 CPU Time: 0 0:33:16.26 ( 1996.26 sec) Binary
 3292     Time Step No. = 5860 Elapsed Time = 3.171708E+06 days
 3293     Date: 02/14/07 Time: 10:25:54 CPU Time: 0 0:33:21.65 ( 2001.65 sec) Binary
 3295     Time Step No. = 5880 Elapsed Time = 3.314482E+06 days
 3296     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:33:27.88 ( 2007.88 sec) Binary
 3298     Time Step No. = 5900 Elapsed Time = 3.592771E+06 days
 3299     Date: 02/14/07 Time: 10:26:06 CPU Time: 0 0:33:34.32 ( 2014.32 sec) Binary
 3302     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
 3318     CPU Time (this time step) = 0.24 sec = 0.00007 hr
 3319     CPU Time (total for run) = 1727.52 sec = 0.47987 hr
 3320    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3318     CPU Time (this time step) = 0.30 sec = 0.00008 hr
 3319     CPU Time (total for run) = 2015.18 sec = 0.55977 hr
 3320    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1
 3996     Date: 02/14/07 Time: 11:13:15 CPU Time: 0 0:28:47.53 ( 1727.53 sec) ASCII
 3998     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3999     Date: 02/14/07 Time: 11:13:15 CPU Time: 0 0:28:47.53 ( 1727.53 sec) Binary
 4004     *****************************************************************************
 4005     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4006     * Completed: 02/14/07 at 11:13:15 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 4007     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
 3996     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) ASCII
 3998     Time Step No. = 5903 Elapsed Time = 3.652431E+06 days
 3999     Date: 02/14/07 Time: 10:26:07 CPU Time: 0 0:33:35.20 ( 2015.20 sec) Binary
 4004     *****************************************************************************
 4005     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 4006     * Completed: 02/14/07 at 10:26:07 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 4007     *****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 584

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES45_TEST7_V009.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V009]BF2_QB0600_ES47_TEST7_V009.OUT;1
```

BF2_QB0600_ES45_TEST7_V010_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
    3     ** Begun on: 02/14/07 at 10:45:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
    3     ** Begun on: 02/14/07 at 09:53:57 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_TEST7_V010.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.ROT;1
   87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.ROT;1
   87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 20.70 sec = 0.00575 hr
 1774    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.38 sec = 0.00649 hr
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 1774    ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
 2450     Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 0:20.72 ( 20.72 sec) ASCII
 2452     Time Step No. = 138 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:46:19 CPU Time: 0 0: 0:20.72 ( 20.72 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.927161E-02 days
 2456     Date: 02/14/07 Time: 10:46:20 CPU Time: 0 0: 0:21.14 ( 21.14 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.062646E+00 days
 2459     Date: 02/14/07 Time: 10:46:23 CPU Time: 0 0: 0:24.48 ( 24.48 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.478092E+02 days
 2462     Date: 02/14/07 Time: 10:46:27 CPU Time: 0 0: 0:28.06 ( 28.06 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.616479E+03 days
 2465     Date: 02/14/07 Time: 10:46:31 CPU Time: 0 0: 0:32.96 ( 32.96 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.564322E+04 days
 2468     Date: 02/14/07 Time: 10:46:39 CPU Time: 0 0: 0:40.50 ( 40.50 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 1.570228E+04 days
 2471     Date: 02/14/07 Time: 10:46:45 CPU Time: 0 0: 0:46.01 ( 46.01 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 1.636574E+04 days
 2474     Date: 02/14/07 Time: 10:46:48 CPU Time: 0 0: 0:49.97 ( 49.97 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 2.627969E+04 days
 2477     Date: 02/14/07 Time: 10:46:53 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.052605E+04 days
 2480     Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 1: 2.16 ( 62.16 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.082160E+04 days
 2483     Date: 02/14/07 Time: 10:47:06 CPU Time: 0 0: 1: 7.95 ( 67.95 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.098990E+04 days
 2486     Date: 02/14/07 Time: 10:47:09 CPU Time: 0 0: 1:10.85 ( 70.85 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.652480E+04 days
 2489     Date: 02/14/07 Time: 10:47:16 CPU Time: 0 0: 1:17.84 ( 77.84 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.654799E+04 days
 2492     Date: 02/14/07 Time: 10:47:19 CPU Time: 0 0: 1:20.87 ( 80.87 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.665586E+04 days
 2495     Date: 02/14/07 Time: 10:47:23 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.668780E+04 days
 2498     Date: 02/14/07 Time: 10:47:25 CPU Time: 0 0: 1:26.21 ( 86.21 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.849288E+04 days
 2501     Date: 02/14/07 Time: 10:47:29 CPU Time: 0 0: 1:30.34 ( 90.34 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 4.259472E+04 days
 2504     Date: 02/14/07 Time: 10:47:33 CPU Time: 0 0: 1:34.68 ( 94.68 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 4.286084E+04 days
 2507     Date: 02/14/07 Time: 10:47:39 CPU Time: 0 0: 1:39.92 ( 99.92 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 4.373619E+04 days
 2510     Date: 02/14/07 Time: 10:47:42 CPU Time: 0 0: 1:43.57 ( 103.57 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 6.235496E+04 days
 2513     Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 1:49.26 ( 109.26 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 7.292165E+04 days
 2516     Date: 02/14/07 Time: 10:47:55 CPU Time: 0 0: 1:56.23 ( 116.23 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 7.898391E+04 days
 2519     Date: 02/14/07 Time: 10:48:02 CPU Time: 0 0: 2: 2.90 ( 122.90 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 9.913502E+04 days
 2522     Date: 02/14/07 Time: 10:48:08 CPU Time: 0 0: 2: 9.28 ( 129.28 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 1.286357E+05 days
 2525     Date: 02/14/07 Time: 10:48:14 CPU Time: 0 0: 2:15.61 ( 135.61 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 1.645239E+05 days
 2528     Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 2:21.25 ( 141.25 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 1.856670E+05 days
 2531     Date: 02/14/07 Time: 10:48:28 CPU Time: 0 0: 2:29.44 ( 149.44 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 2.030085E+05 days
 2534     Date: 02/14/07 Time: 10:48:35 CPU Time: 0 0: 2:36.59 ( 156.59 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 2.179414E+05 days
 2537     Date: 02/14/07 Time: 10:48:44 CPU Time: 0 0: 2:44.84 ( 164.84 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 2.337832E+05 days
 2540     Date: 02/14/07 Time: 10:48:51 CPU Time: 0 0: 2:52.35 ( 172.35 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 2.687785E+05 days
 2543     Date: 02/14/07 Time: 10:48:57 CPU Time: 0 0: 2:58.29 ( 178.29 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.009523E+05 days
 2546     Date: 02/14/07 Time: 10:49:05 CPU Time: 0 0: 3: 6.05 ( 186.05 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.218089E+05 days
 2549     Date: 02/14/07 Time: 10:49:13 CPU Time: 0 0: 3:13.96 ( 193.96 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.391516E+05 days
 2552     Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 3:20.58 ( 200.58 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.652438E+05 days
 2555     Date: 02/14/07 Time: 10:49:25 CPU Time: 0 0: 3:25.89 ( 205.89 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 3.652885E+05 days
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 2558     Date: 02/14/07 Time: 10:49:27 CPU Time: 0 0: 3:28.27 ( 208.27 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 3.665818E+05 days
 2561     Date: 02/14/07 Time: 10:49:30 CPU Time: 0 0: 3:30.78 ( 210.78 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 3.665902E+05 days
 2564     Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 3:32.00 ( 212.00 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 3.673164E+05 days
 2567     Date: 02/14/07 Time: 10:49:33 CPU Time: 0 0: 3:34.32 ( 214.32 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 3.787894E+05 days
 2570     Date: 02/14/07 Time: 10:49:38 CPU Time: 0 0: 3:39.43 ( 219.43 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 3.981376E+05 days
 2573     Date: 02/14/07 Time: 10:49:46 CPU Time: 0 0: 3:46.53 ( 226.53 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 4.776050E+05 days
 2576     Date: 02/14/07 Time: 10:49:53 CPU Time: 0 0: 3:53.16 ( 233.16 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 6.163774E+05 days
 2579     Date: 02/14/07 Time: 10:49:59 CPU Time: 0 0: 3:59.70 ( 239.70 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.538495E+05 days
 2582     Date: 02/14/07 Time: 10:50:07 CPU Time: 0 0: 4: 7.39 ( 247.39 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
 2585     Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 4:14.54 ( 254.54 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
 2588     Date: 02/14/07 Time: 10:50:20 CPU Time: 0 0: 4:20.02 ( 260.02 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
 2591     Date: 02/14/07 Time: 10:50:26 CPU Time: 0 0: 4:26.71 ( 266.71 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
 2594     Date: 02/14/07 Time: 10:50:33 CPU Time: 0 0: 4:33.46 ( 273.46 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
 2597     Date: 02/14/07 Time: 10:50:37 CPU Time: 0 0: 4:37.71 ( 277.71 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
 2600     Date: 02/14/07 Time: 10:50:43 CPU Time: 0 0: 4:43.12 ( 283.12 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
 2603     Date: 02/14/07 Time: 10:50:46 CPU Time: 0 0: 4:46.85 ( 286.85 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
 2606     Date: 02/14/07 Time: 10:50:50 CPU Time: 0 0: 4:50.46 ( 290.46 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
 2609     Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.00 ( 294.00 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2450     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.39 ( 23.39 sec) ASCII
 2452     Time Step No. = 138 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.40 ( 23.40 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.927161E-02 days
 2456     Date: 02/14/07 Time: 09:54:21 CPU Time: 0 0: 0:23.87 ( 23.87 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.062646E+00 days
 2459     Date: 02/14/07 Time: 09:54:25 CPU Time: 0 0: 0:27.65 ( 27.65 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.478092E+02 days
 2462     Date: 02/14/07 Time: 09:54:29 CPU Time: 0 0: 0:31.69 ( 31.69 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 2.616479E+03 days
 2465     Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:37.25 ( 37.25 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 1.564322E+04 days
 2468     Date: 02/14/07 Time: 09:54:43 CPU Time: 0 0: 0:45.86 ( 45.86 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 1.570228E+04 days
 2471     Date: 02/14/07 Time: 09:54:50 CPU Time: 0 0: 0:52.16 ( 52.16 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 1.636574E+04 days
 2474     Date: 02/14/07 Time: 09:54:54 CPU Time: 0 0: 0:56.68 ( 56.68 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 2.627969E+04 days
 2477     Date: 02/14/07 Time: 09:54:59 CPU Time: 0 0: 1: 1.80 ( 61.80 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.052605E+04 days
 2480     Date: 02/14/07 Time: 09:55:08 CPU Time: 0 0: 1:10.47 ( 70.47 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.082160E+04 days
 2483     Date: 02/14/07 Time: 09:55:14 CPU Time: 0 0: 1:16.74 ( 76.74 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.098990E+04 days
 2486     Date: 02/14/07 Time: 09:55:17 CPU Time: 0 0: 1:19.98 ( 79.98 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.652480E+04 days
 2489     Date: 02/14/07 Time: 09:55:26 CPU Time: 0 0: 1:28.15 ( 88.15 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 3.654799E+04 days
 2492     Date: 02/14/07 Time: 09:55:29 CPU Time: 0 0: 1:31.69 ( 91.69 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 3.665586E+04 days
 2495     Date: 02/14/07 Time: 09:55:33 CPU Time: 0 0: 1:35.44 ( 95.44 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 3.668780E+04 days
 2498     Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:37.97 ( 97.97 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 3.849288E+04 days
 2501     Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:42.81 ( 102.81 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 4.259472E+04 days
 2504     Date: 02/14/07 Time: 09:55:45 CPU Time: 0 0: 1:47.90 ( 107.90 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 4.286084E+04 days
```

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 2507     Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:54.02 ( 114.02 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 4.373619E+04 days
 2510     Date: 02/14/07 Time: 09:55:56 CPU Time: 0 0: 1:58.30 ( 118.30 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 6.235496E+04 days
 2513     Date: 02/14/07 Time: 09:56:03 CPU Time: 0 0: 2: 4.96 ( 124.96 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 7.292165E+04 days
 2516     Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2:12.94 ( 132.94 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 7.898391E+04 days
 2519     Date: 02/14/07 Time: 09:56:18 CPU Time: 0 0: 2:20.64 ( 140.64 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 9.913502E+04 days
 2522     Date: 02/14/07 Time: 09:56:26 CPU Time: 0 0: 2:28.07 ( 148.07 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 1.286357E+05 days
 2525     Date: 02/14/07 Time: 09:56:33 CPU Time: 0 0: 2:35.50 ( 155.50 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 1.645239E+05 days
 2528     Date: 02/14/07 Time: 09:56:40 CPU Time: 0 0: 2:41.94 ( 161.94 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 1.856670E+05 days
 2531     Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:51.42 ( 171.42 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 2.030085E+05 days
 2534     Date: 02/14/07 Time: 09:56:57 CPU Time: 0 0: 2:59.53 ( 179.53 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 2.179414E+05 days
 2537     Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 3: 9.09 ( 189.09 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 2.337832E+05 days
 2540     Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 3:17.84 ( 197.84 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 2.687785E+05 days
 2543     Date: 02/14/07 Time: 09:57:22 CPU Time: 0 0: 3:24.76 ( 204.76 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.009523E+05 days
 2546     Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 3:33.78 ( 213.78 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.218089E+05 days
 2549     Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 3:42.74 ( 222.74 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.391516E+05 days
 2552     Date: 02/14/07 Time: 09:57:48 CPU Time: 0 0: 3:49.95 ( 229.95 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.652438E+05 days
 2555     Date: 02/14/07 Time: 09:57:53 CPU Time: 0 0: 3:55.62 ( 235.62 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 3.652885E+05 days
 2558     Date: 02/14/07 Time: 09:57:56 CPU Time: 0 0: 3:58.15 ( 238.15 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 3.665818E+05 days
 2561     Date: 02/14/07 Time: 09:57:59 CPU Time: 0 0: 4: 0.84 ( 240.84 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 3.665902E+05 days
 2564     Date: 02/14/07 Time: 09:58:00 CPU Time: 0 0: 4: 2.17 ( 242.17 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 3.673164E+05 days
 2567     Date: 02/14/07 Time: 09:58:03 CPU Time: 0 0: 4: 4.70 ( 244.70 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 3.787894E+05 days
 2570     Date: 02/14/07 Time: 09:58:08 CPU Time: 0 0: 4:10.23 ( 250.23 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 3.981376E+05 days
 2573     Date: 02/14/07 Time: 09:58:16 CPU Time: 0 0: 4:17.91 ( 257.91 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 4.776050E+05 days
 2576     Date: 02/14/07 Time: 09:58:23 CPU Time: 0 0: 4:25.08 ( 265.08 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 6.163774E+05 days
 2579     Date: 02/14/07 Time: 09:58:31 CPU Time: 0 0: 4:32.12 ( 272.12 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 8.538495E+05 days
 2582     Date: 02/14/07 Time: 09:58:39 CPU Time: 0 0: 4:40.41 ( 280.41 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.041013E+06 days
 2585     Date: 02/14/07 Time: 09:58:47 CPU Time: 0 0: 4:48.64 ( 288.64 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.426013E+06 days
 2588     Date: 02/14/07 Time: 09:58:54 CPU Time: 0 0: 4:55.14 ( 295.14 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.569664E+06 days
 2591     Date: 02/14/07 Time: 09:59:02 CPU Time: 0 0: 5: 3.12 ( 303.12 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.838319E+06 days
 2594     Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5:11.14 ( 311.14 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 2.081785E+06 days
 2597     Date: 02/14/07 Time: 09:59:15 CPU Time: 0 0: 5:16.21 ( 316.21 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 2.372417E+06 days
 2600     Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:22.67 ( 322.67 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 2.772417E+06 days
 2603     Date: 02/14/07 Time: 09:59:26 CPU Time: 0 0: 5:27.13 ( 327.13 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 3.172417E+06 days
 2606     Date: 02/14/07 Time: 09:59:31 CPU Time: 0 0: 5:31.46 ( 331.46 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 3.572417E+06 days
 2609     Date: 02/14/07 Time: 09:59:35 CPU Time: 0 0: 5:35.70 ( 335.70 sec) Binary
 2612     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
 2628     CPU Time (this time step) = 0.06 sec = 0.00002 hr
 2629     CPU Time (total for run) = 294.76 sec = 0.08188 hr
 2630    ******************************************************************************
```

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******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 2628     CPU Time (this time step) = 0.07 sec = 0.00002 hr
 2629     CPU Time (total for run) = 336.61 sec = 0.09350 hr
 2630    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1
 3306     Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.78 ( 294.78 sec) ASCII
 3308     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 10:50:54 CPU Time: 0 0: 4:54.78 ( 294.78 sec) Binary
 3314     ******************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 10:50:54 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3317     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
 3306     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) ASCII
 3308     Time Step No. = 1165 Elapsed Time = 3.652431E+06 days
 3309     Date: 02/14/07 Time: 09:59:36 CPU Time: 0 0: 5:36.64 ( 336.64 sec) Binary
 3314     ******************************************************************************
 3315     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3316     * Completed: 02/14/07 at 09:59:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3317     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 124

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES45_TEST7_V010.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V010]BF2_QB0600_ES47_TEST7_V010.OUT;1
```

BF2_QB0600_ES45_TEST7_V011_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
    3     ** Begun on: 02/14/07 at 10:46:28 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
    3     ** Begun on: 02/14/07 at 09:54:06 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
   62    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_TEST7_V011.INP;2
   62    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_CLOSURE.DAT;1
   67    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   72    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   72    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
```

```
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.ROT;1
   87      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.ROT;1
   87      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 1772      CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773      CPU Time (total for run) = 21.50 sec = 0.00597 hr
 1774      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 1772      CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773      CPU Time (total for run) = 25.63 sec = 0.00712 hr
 1774      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 2450      Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 0:21.51 ( 21.51 sec) ASCII
 2452      Time Step No. = 142 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:46:49 CPU Time: 0 0: 0:21.52 ( 21.52 sec) Binary
 2455      Time Step No. = 160 Elapsed Time = 1.064671E-03 days
 2456      Date: 02/14/07 Time: 10:46:52 CPU Time: 0 0: 0:24.53 ( 24.53 sec) Binary
 2458      Time Step No. = 180 Elapsed Time = 9.402002E-02 days
 2459      Date: 02/14/07 Time: 10:46:55 CPU Time: 0 0: 0:27.33 ( 27.33 sec) Binary
 2461      Time Step No. = 200 Elapsed Time = 5.514852E+00 days
 2462      Date: 02/14/07 Time: 10:46:58 CPU Time: 0 0: 0:30.11 ( 30.11 sec) Binary
 2464      Time Step No. = 220 Elapsed Time = 2.178362E+02 days
 2465      Date: 02/14/07 Time: 10:47:01 CPU Time: 0 0: 0:33.58 ( 33.58 sec) Binary
 2467      Time Step No. = 240 Elapsed Time = 2.221380E+03 days
 2468      Date: 02/14/07 Time: 10:47:07 CPU Time: 0 0: 0:38.83 ( 38.83 sec) Binary
 2470      Time Step No. = 260 Elapsed Time = 5.532745E+03 days
 2471      Date: 02/14/07 Time: 10:47:13 CPU Time: 0 0: 0:45.52 ( 45.52 sec) Binary
 2473      Time Step No. = 280 Elapsed Time = 5.850050E+03 days
 2474      Date: 02/14/07 Time: 10:47:18 CPU Time: 0 0: 0:50.26 ( 50.26 sec) Binary
 2476      Time Step No. = 300 Elapsed Time = 7.163773E+03 days
 2477      Date: 02/14/07 Time: 10:47:24 CPU Time: 0 0: 0:56.54 ( 56.54 sec) Binary
 2479      Time Step No. = 320 Elapsed Time = 7.646916E+03 days
 2480      Date: 02/14/07 Time: 10:47:30 CPU Time: 0 0: 1: 1.90 ( 61.90 sec) Binary
 2482      Time Step No. = 340 Elapsed Time = 8.451464E+03 days
 2483      Date: 02/14/07 Time: 10:47:34 CPU Time: 0 0: 1: 6.24 ( 66.24 sec) Binary
 2485      Time Step No. = 360 Elapsed Time = 8.495154E+03 days
 2486      Date: 02/14/07 Time: 10:47:39 CPU Time: 0 0: 1:11.09 ( 71.09 sec) Binary
 2488      Time Step No. = 380 Elapsed Time = 8.550791E+03 days
 2489      Date: 02/14/07 Time: 10:47:43 CPU Time: 0 0: 1:15.37 ( 75.37 sec) Binary
 2491      Time Step No. = 400 Elapsed Time = 8.902588E+03 days
 2492      Date: 02/14/07 Time: 10:47:48 CPU Time: 0 0: 1:20.37 ( 80.37 sec) Binary
 2494      Time Step No. = 420 Elapsed Time = 1.392947E+04 days
 2495      Date: 02/14/07 Time: 10:47:54 CPU Time: 0 0: 1:25.77 ( 85.77 sec) Binary
 2497      Time Step No. = 440 Elapsed Time = 1.478125E+04 days
 2498      Date: 02/14/07 Time: 10:47:59 CPU Time: 0 0: 1:30.67 ( 90.67 sec) Binary
 2500      Time Step No. = 460 Elapsed Time = 1.657464E+04 days
 2501      Date: 02/14/07 Time: 10:48:04 CPU Time: 0 0: 1:35.96 ( 95.96 sec) Binary
 2503      Time Step No. = 480 Elapsed Time = 1.869145E+04 days
 2504      Date: 02/14/07 Time: 10:48:10 CPU Time: 0 0: 1:42.39 ( 102.39 sec) Binary
 2506      Time Step No. = 500 Elapsed Time = 1.980385E+04 days
```

```
2507    Date: 02/14/07 Time: 10:48:15 CPU Time: 0 0: 1:46.72 ( 106.72 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510    Date: 02/14/07 Time: 10:48:20 CPU Time: 0 0: 1:52.54 ( 112.54 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513    Date: 02/14/07 Time: 10:48:26 CPU Time: 0 0: 1:57.95 ( 117.95 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516    Date: 02/14/07 Time: 10:48:32 CPU Time: 0 0: 2: 3.76 ( 123.76 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519    Date: 02/14/07 Time: 10:48:36 CPU Time: 0 0: 2: 8.15 ( 128.15 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522    Date: 02/14/07 Time: 10:48:42 CPU Time: 0 0: 2:14.25 ( 134.25 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525    Date: 02/14/07 Time: 10:48:48 CPU Time: 0 0: 2:20.31 ( 140.31 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528    Date: 02/14/07 Time: 10:48:53 CPU Time: 0 0: 2:25.14 ( 145.14 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531    Date: 02/14/07 Time: 10:49:00 CPU Time: 0 0: 2:32.15 ( 152.15 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534    Date: 02/14/07 Time: 10:49:03 CPU Time: 0 0: 2:34.60 ( 154.60 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537    Date: 02/14/07 Time: 10:49:06 CPU Time: 0 0: 2:37.73 ( 157.73 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540    Date: 02/14/07 Time: 10:49:08 CPU Time: 0 0: 2:39.95 ( 159.95 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543    Date: 02/14/07 Time: 10:49:10 CPU Time: 0 0: 2:42.05 ( 162.05 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546    Date: 02/14/07 Time: 10:49:14 CPU Time: 0 0: 2:46.21 ( 166.21 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549    Date: 02/14/07 Time: 10:49:23 CPU Time: 0 0: 2:54.74 ( 174.74 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552    Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 2:59.81 ( 179.81 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555    Date: 02/14/07 Time: 10:49:32 CPU Time: 0 0: 3: 4.20 ( 184.20 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558    Date: 02/14/07 Time: 10:49:37 CPU Time: 0 0: 3: 8.82 ( 188.82 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561    Date: 02/14/07 Time: 10:49:43 CPU Time: 0 0: 3:14.41 ( 194.41 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564    Date: 02/14/07 Time: 10:49:47 CPU Time: 0 0: 3:18.53 ( 198.53 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567    Date: 02/14/07 Time: 10:49:52 CPU Time: 0 0: 3:23.87 ( 203.87 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570    Date: 02/14/07 Time: 10:49:57 CPU Time: 0 0: 3:28.29 ( 208.29 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573    Date: 02/14/07 Time: 10:50:03 CPU Time: 0 0: 3:35.03 ( 215.03 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 8.093757E+04 days
2576    Date: 02/14/07 Time: 10:50:09 CPU Time: 0 0: 3:40.94 ( 220.94 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579    Date: 02/14/07 Time: 10:50:15 CPU Time: 0 0: 3:46.46 ( 226.46 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582    Date: 02/14/07 Time: 10:50:21 CPU Time: 0 0: 3:53.05 ( 233.05 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585    Date: 02/14/07 Time: 10:50:29 CPU Time: 0 0: 4: 0.76 ( 240.76 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588    Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 4: 6.64 ( 246.64 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591    Date: 02/14/07 Time: 10:50:39 CPU Time: 0 0: 4:10.74 ( 250.74 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594    Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 4:17.02 ( 257.02 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597    Date: 02/14/07 Time: 10:50:51 CPU Time: 0 0: 4:22.73 ( 262.73 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600    Date: 02/14/07 Time: 10:50:58 CPU Time: 0 0: 4:29.99 ( 269.99 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603    Date: 02/14/07 Time: 10:51:02 CPU Time: 0 0: 4:33.34 ( 273.34 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606    Date: 02/14/07 Time: 10:51:06 CPU Time: 0 0: 4:37.51 ( 277.51 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609    Date: 02/14/07 Time: 10:51:07 CPU Time: 0 0: 4:38.82 ( 278.82 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612    Date: 02/14/07 Time: 10:51:10 CPU Time: 0 0: 4:41.96 ( 281.96 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615    Date: 02/14/07 Time: 10:51:16 CPU Time: 0 0: 4:47.32 ( 287.32 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618    Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 4:54.34 ( 294.34 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
```

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 2621     Date: 02/14/07 Time: 10:51:30 CPU Time: 0 0: 5: 1.57 ( 301.57 sec) Binary
 2623     Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
 2624     Date: 02/14/07 Time: 10:51:36 CPU Time: 0 0: 5: 7.38 ( 307.38 sec) Binary
 2626     Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
 2627     Date: 02/14/07 Time: 10:51:42 CPU Time: 0 0: 5:13.82 ( 313.82 sec) Binary
 2629     Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
 2630     Date: 02/14/07 Time: 10:51:51 CPU Time: 0 0: 5:22.96 ( 322.96 sec) Binary
 2632     Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
 2633     Date: 02/14/07 Time: 10:51:58 CPU Time: 0 0: 5:29.74 ( 329.74 sec) Binary
 2635     Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
 2636     Date: 02/14/07 Time: 10:52:05 CPU Time: 0 0: 5:36.62 ( 336.62 sec) Binary
 2638     Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
 2639     Date: 02/14/07 Time: 10:52:10 CPU Time: 0 0: 5:41.25 ( 341.25 sec) Binary
 2641     Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
 2642     Date: 02/14/07 Time: 10:52:17 CPU Time: 0 0: 5:48.28 ( 348.28 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
 2645     Date: 02/14/07 Time: 10:52:24 CPU Time: 0 0: 5:55.24 ( 355.24 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
 2648     Date: 02/14/07 Time: 10:52:31 CPU Time: 0 0: 6: 2.03 ( 362.03 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
 2651     Date: 02/14/07 Time: 10:52:38 CPU Time: 0 0: 6: 9.24 ( 369.24 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
 2654     Date: 02/14/07 Time: 10:52:45 CPU Time: 0 0: 6:16.37 ( 376.37 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
 2657     Date: 02/14/07 Time: 10:52:53 CPU Time: 0 0: 6:24.19 ( 384.19 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
 2660     Date: 02/14/07 Time: 10:52:58 CPU Time: 0 0: 6:29.65 ( 389.65 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
 2663     Date: 02/14/07 Time: 10:53:07 CPU Time: 0 0: 6:37.92 ( 397.92 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
 2666     Date: 02/14/07 Time: 10:53:12 CPU Time: 0 0: 6:43.34 ( 403.34 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
 2669     Date: 02/14/07 Time: 10:53:19 CPU Time: 0 0: 6:49.93 ( 409.93 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
 2672     Date: 02/14/07 Time: 10:53:26 CPU Time: 0 0: 6:57.58 ( 417.58 sec) Binary
 2674     Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
 2675     Date: 02/14/07 Time: 10:53:32 CPU Time: 0 0: 7: 3.79 ( 423.79 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
 2678     Date: 02/14/07 Time: 10:53:39 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
 2681     Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 7:18.47 ( 438.47 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
 2684     Date: 02/14/07 Time: 10:53:54 CPU Time: 0 0: 7:25.55 ( 445.55 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
 2687     Date: 02/14/07 Time: 10:54:00 CPU Time: 0 0: 7:30.86 ( 450.86 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
 2690     Date: 02/14/07 Time: 10:54:05 CPU Time: 0 0: 7:36.66 ( 456.66 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
 2693     Date: 02/14/07 Time: 10:54:10 CPU Time: 0 0: 7:41.27 ( 461.27 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
 2696     Date: 02/14/07 Time: 10:54:16 CPU Time: 0 0: 7:47.42 ( 467.42 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
 2699     Date: 02/14/07 Time: 10:54:20 CPU Time: 0 0: 7:51.41 ( 471.41 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
 2702     Date: 02/14/07 Time: 10:54:27 CPU Time: 0 0: 7:57.93 ( 477.93 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
 2705     Date: 02/14/07 Time: 10:54:34 CPU Time: 0 0: 8: 4.94 ( 484.94 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
 2708     Date: 02/14/07 Time: 10:54:38 CPU Time: 0 0: 8: 9.33 ( 489.33 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
 2711     Date: 02/14/07 Time: 10:54:42 CPU Time: 0 0: 8:12.91 ( 492.91 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
 2714     Date: 02/14/07 Time: 10:54:45 CPU Time: 0 0: 8:16.38 ( 496.38 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
 2717     Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:19.85 ( 499.85 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2450     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0:0:25.64 ( 25.64 sec) ASCII
 2452     Time Step No. = 142 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 09:54:32 CPU Time: 0 0: 0:25.65 ( 25.65 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.064671E-03 days
 2456     Date: 02/14/07 Time: 09:54:35 CPU Time: 0 0: 0:29.24 ( 29.24 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.402002E-02 days
 2459     Date: 02/14/07 Time: 09:54:38 CPU Time: 0 0: 0:32.57 ( 32.57 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.514852E+00 days
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2462    Date: 02/14/07 Time: 09:54:42 CPU Time: 0 0: 0:35.90 ( 35.90 sec) Binary
2464    Time Step No. = 220 Elapsed Time = 2.178362E+02 days
2465    Date: 02/14/07 Time: 09:54:46 CPU Time: 0 0: 0:40.05 ( 40.05 sec) Binary
2467    Time Step No. = 240 Elapsed Time = 2.221380E+03 days
2468    Date: 02/14/07 Time: 09:54:52 CPU Time: 0 0: 0:46.31 ( 46.31 sec) Binary
2470    Time Step No. = 260 Elapsed Time = 5.532745E+03 days
2471    Date: 02/14/07 Time: 09:55:00 CPU Time: 0 0: 0:54.27 ( 54.27 sec) Binary
2473    Time Step No. = 280 Elapsed Time = 5.850050E+03 days
2474    Date: 02/14/07 Time: 09:55:06 CPU Time: 0 0: 0:59.92 ( 59.92 sec) Binary
2476    Time Step No. = 300 Elapsed Time = 7.163773E+03 days
2477    Date: 02/14/07 Time: 09:55:13 CPU Time: 0 0: 1: 7.39 ( 67.39 sec) Binary
2479    Time Step No. = 320 Elapsed Time = 7.646916E+03 days
2480    Date: 02/14/07 Time: 09:55:20 CPU Time: 0 0: 1:13.55 ( 73.55 sec) Binary
2482    Time Step No. = 340 Elapsed Time = 8.451464E+03 days
2483    Date: 02/14/07 Time: 09:55:24 CPU Time: 0 0: 1:18.35 ( 78.35 sec) Binary
2485    Time Step No. = 360 Elapsed Time = 8.495154E+03 days
2486    Date: 02/14/07 Time: 09:55:30 CPU Time: 0 0: 1:23.72 ( 83.72 sec) Binary
2488    Time Step No. = 380 Elapsed Time = 8.550791E+03 days
2489    Date: 02/14/07 Time: 09:55:35 CPU Time: 0 0: 1:28.46 ( 88.46 sec) Binary
2491    Time Step No. = 400 Elapsed Time = 8.902588E+03 days
2492    Date: 02/14/07 Time: 09:55:40 CPU Time: 0 0: 1:34.02 ( 94.02 sec) Binary
2494    Time Step No. = 420 Elapsed Time = 1.392947E+04 days
2495    Date: 02/14/07 Time: 09:55:46 CPU Time: 0 0: 1:39.96 ( 99.96 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 1.478125E+04 days
2498    Date: 02/14/07 Time: 09:55:52 CPU Time: 0 0: 1:45.40 ( 105.40 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 1.657464E+04 days
2501    Date: 02/14/07 Time: 09:55:57 CPU Time: 0 0: 1:51.29 ( 111.29 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 1.869145E+04 days
2504    Date: 02/14/07 Time: 09:56:05 CPU Time: 0 0: 1:58.40 ( 118.40 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.980385E+04 days
2507    Date: 02/14/07 Time: 09:56:10 CPU Time: 0 0: 2: 3.52 ( 123.52 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 2.165433E+04 days
2510    Date: 02/14/07 Time: 09:56:17 CPU Time: 0 0: 2:10.59 ( 130.59 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.189594E+04 days
2513    Date: 02/14/07 Time: 09:56:23 CPU Time: 0 0: 2:17.18 ( 137.18 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 2.219046E+04 days
2516    Date: 02/14/07 Time: 09:56:30 CPU Time: 0 0: 2:23.84 ( 143.84 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 2.441063E+04 days
2519    Date: 02/14/07 Time: 09:56:35 CPU Time: 0 0: 2:28.71 ( 148.71 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 2.696736E+04 days
2522    Date: 02/14/07 Time: 09:56:42 CPU Time: 0 0: 2:35.49 ( 155.49 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.055720E+04 days
2525    Date: 02/14/07 Time: 09:56:49 CPU Time: 0 0: 2:42.17 ( 162.17 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.382226E+04 days
2528    Date: 02/14/07 Time: 09:56:54 CPU Time: 0 0: 2:47.54 ( 167.54 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.652433E+04 days
2531    Date: 02/14/07 Time: 09:57:02 CPU Time: 0 0: 2:55.35 ( 175.35 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.652532E+04 days
2534    Date: 02/14/07 Time: 09:57:05 CPU Time: 0 0: 2:58.07 ( 178.07 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.656608E+04 days
2537    Date: 02/14/07 Time: 09:57:08 CPU Time: 0 0: 3: 1.55 ( 181.55 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.665527E+04 days
2540    Date: 02/14/07 Time: 09:57:11 CPU Time: 0 0: 3: 4.02 ( 184.02 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.669519E+04 days
2543    Date: 02/14/07 Time: 09:57:13 CPU Time: 0 0: 3: 6.38 ( 186.38 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.766504E+04 days
2546    Date: 02/14/07 Time: 09:57:18 CPU Time: 0 0: 3:10.97 ( 190.97 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.934114E+04 days
2549    Date: 02/14/07 Time: 09:57:27 CPU Time: 0 0: 3:20.67 ( 200.67 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.965251E+04 days
2552    Date: 02/14/07 Time: 09:57:33 CPU Time: 0 0: 3:26.52 ( 206.52 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.316593E+04 days
2555    Date: 02/14/07 Time: 09:57:38 CPU Time: 0 0: 3:31.59 ( 211.59 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.553491E+04 days
2558    Date: 02/14/07 Time: 09:57:44 CPU Time: 0 0: 3:36.92 ( 216.92 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.659621E+04 days
2561    Date: 02/14/07 Time: 09:57:50 CPU Time: 0 0: 3:43.38 ( 223.38 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.893931E+04 days
2564    Date: 02/14/07 Time: 09:57:55 CPU Time: 0 0: 3:48.11 ( 228.11 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.227856E+04 days
2567    Date: 02/14/07 Time: 09:58:02 CPU Time: 0 0: 3:54.29 ( 234.29 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 5.601875E+04 days
2570    Date: 02/14/07 Time: 09:58:07 CPU Time: 0 0: 3:59.43 ( 239.43 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.489817E+04 days
2573    Date: 02/14/07 Time: 09:58:15 CPU Time: 0 0: 4: 7.20 ( 247.20 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 8.093757E+04 days
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2576    Date: 02/14/07 Time: 09:58:21 CPU Time: 0 0: 4:14.05 ( 254.05 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 9.509876E+04 days
2579    Date: 02/14/07 Time: 09:58:28 CPU Time: 0 0: 4:20.44 ( 260.44 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.828252E+05 days
2582    Date: 02/14/07 Time: 09:58:36 CPU Time: 0 0: 4:28.01 ( 268.01 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.900656E+05 days
2585    Date: 02/14/07 Time: 09:58:45 CPU Time: 0 0: 4:36.92 ( 276.92 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.905214E+05 days
2588    Date: 02/14/07 Time: 09:58:51 CPU Time: 0 0: 4:43.71 ( 283.71 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.961906E+05 days
2591    Date: 02/14/07 Time: 09:58:56 CPU Time: 0 0: 4:48.46 ( 288.46 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 2.299386E+05 days
2594    Date: 02/14/07 Time: 09:59:04 CPU Time: 0 0: 4:55.72 ( 295.72 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 2.596134E+05 days
2597    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 5: 2.33 ( 302.33 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 3.652468E+05 days
2600    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 5:10.69 ( 310.69 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 3.653374E+05 days
2603    Date: 02/14/07 Time: 09:59:22 CPU Time: 0 0: 5:14.53 ( 314.53 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 3.666344E+05 days
2606    Date: 02/14/07 Time: 09:59:28 CPU Time: 0 0: 5:19.36 ( 319.36 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 3.666427E+05 days
2609    Date: 02/14/07 Time: 09:59:29 CPU Time: 0 0: 5:20.89 ( 320.89 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 3.673690E+05 days
2612    Date: 02/14/07 Time: 09:59:33 CPU Time: 0 0: 5:24.49 ( 324.49 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 3.729208E+05 days
2615    Date: 02/14/07 Time: 09:59:39 CPU Time: 0 0: 5:30.69 ( 330.69 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.158995E+05 days
2618    Date: 02/14/07 Time: 09:59:47 CPU Time: 0 0: 5:38.82 ( 338.82 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 5.845356E+05 days
2621    Date: 02/14/07 Time: 09:59:56 CPU Time: 0 0: 5:47.21 ( 347.21 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 6.132993E+05 days
2624    Date: 02/14/07 Time: 10:00:02 CPU Time: 0 0: 5:53.95 ( 353.95 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 7.292501E+05 days
2627    Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 6: 1.41 ( 361.41 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 8.282454E+05 days
2630    Date: 02/14/07 Time: 10:00:20 CPU Time: 0 0: 6:11.96 ( 371.96 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 9.166550E+05 days
2633    Date: 02/14/07 Time: 10:00:28 CPU Time: 0 0: 6:19.81 ( 379.81 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.068826E+06 days
2636    Date: 02/14/07 Time: 10:00:36 CPU Time: 0 0: 6:27.79 ( 387.79 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.100765E+06 days
2639    Date: 02/14/07 Time: 10:00:42 CPU Time: 0 0: 6:33.15 ( 393.15 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 1.227518E+06 days
2642    Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 6:41.25 ( 401.25 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 1.298193E+06 days
2645    Date: 02/14/07 Time: 10:00:58 CPU Time: 0 0: 6:49.28 ( 409.28 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 1.579761E+06 days
2648    Date: 02/14/07 Time: 10:01:06 CPU Time: 0 0: 6:57.14 ( 417.14 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 1.705411E+06 days
2651    Date: 02/14/07 Time: 10:01:14 CPU Time: 0 0: 7: 5.45 ( 425.45 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 1.791793E+06 days
2654    Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 7:13.70 ( 433.70 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 1.801222E+06 days
2657    Date: 02/14/07 Time: 10:01:31 CPU Time: 0 0: 7:22.72 ( 442.72 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 1.841044E+06 days
2660    Date: 02/14/07 Time: 10:01:38 CPU Time: 0 0: 7:29.05 ( 449.05 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 1.955743E+06 days
2663    Date: 02/14/07 Time: 10:01:47 CPU Time: 0 0: 7:38.61 ( 458.61 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 1.990221E+06 days
2666    Date: 02/14/07 Time: 10:01:54 CPU Time: 0 0: 7:44.88 ( 464.88 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.118411E+06 days
2669    Date: 02/14/07 Time: 10:02:01 CPU Time: 0 0: 7:52.53 ( 472.53 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.133494E+06 days
2672    Date: 02/14/07 Time: 10:02:10 CPU Time: 0 0: 8: 1.38 ( 481.38 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 2.148308E+06 days
2675    Date: 02/14/07 Time: 10:02:17 CPU Time: 0 0: 8: 8.59 ( 488.59 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.159609E+06 days
2678    Date: 02/14/07 Time: 10:02:25 CPU Time: 0 0: 8:15.77 ( 495.77 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.165261E+06 days
2681    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 8:25.54 ( 505.54 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 2.170603E+06 days
2684    Date: 02/14/07 Time: 10:02:43 CPU Time: 0 0: 8:33.74 ( 513.74 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 2.174318E+06 days
2687    Date: 02/14/07 Time: 10:02:49 CPU Time: 0 0: 8:39.90 ( 519.90 sec) Binary
2689    Time Step No. = 1720 Elapsed Time = 2.176154E+06 days
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 2690     Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 8:46.64 ( 526.64 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.179173E+06 days
 2693     Date: 02/14/07 Time: 10:03:01 CPU Time: 0 0: 8:52.00 ( 532.00 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.198642E+06 days
 2696     Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 8:59.23 ( 539.23 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.238214E+06 days
 2699     Date: 02/14/07 Time: 10:03:13 CPU Time: 0 0: 9: 4.11 ( 544.11 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.265291E+06 days
 2702     Date: 02/14/07 Time: 10:03:21 CPU Time: 0 0: 9:11.98 ( 551.98 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.290810E+06 days
 2705     Date: 02/14/07 Time: 10:03:30 CPU Time: 0 0: 9:20.52 ( 560.52 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.381658E+06 days
 2708     Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 9:25.86 ( 565.86 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.781658E+06 days
 2711     Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 9:30.25 ( 570.25 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.181658E+06 days
 2714     Date: 02/14/07 Time: 10:03:44 CPU Time: 0 0: 9:34.48 ( 574.48 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.581658E+06 days
 2717     Date: 02/14/07 Time: 10:03:48 CPU Time: 0 0: 9:38.73 ( 578.73 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 2736     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2737     CPU Time (total for run) = 500.49 sec = 0.13902 hr
 2738     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 2736     CPU Time (this time step) = 0.15 sec = 0.00004 hr
 2737     CPU Time (total for run) = 579.52 sec = 0.16098 hr
 2738     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1
 3414     Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:20.50 ( 500.50 sec) ASCII
 3416     Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 8:20.51 ( 500.51 sec) Binary
 3422     ****************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:54:49 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3425     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
 3414     Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.53 ( 579.53 sec) ASCII
 3416     Time Step No. = 1904 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 9:39.54 ( 579.54 sec) Binary
 3422     ****************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:03:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 196

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES45_TEST7_V011.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V011]BF2_QB0600_ES47_TEST7_V011.OUT;1
```

BF2_QB0600_ES45_TEST7_V012_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
    3     ** Begun on: 02/14/07 at 10:47:53 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
    3     ** Begun on: 02/14/07 at 09:56:26 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
```

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   62      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_TEST7_V012.INP;2
   62      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_CLOSURE.DAT;1
   67      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_CLOSURE.DAT;1
   67      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   72      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   72      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.SUM;1
   77      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.SUM;1
   77      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.BIN;1
   82      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.BIN;1
   82      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.ROT;1
   87      ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.ROT;1
   87      ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
 1772      CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773      CPU Time (total for run) = 19.88 sec = 0.00552 hr
 1774     *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 1772      CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773      CPU Time (total for run) = 23.20 sec = 0.00644 hr
 1774     *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
 2450      Date: 02/14/07 Time: 10:48:12 CPU Time: 0 0: 0:19.89 ( 19.89 sec) ASCII
 2452      Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:48:13 CPU Time: 0 0: 0:19.89 ( 19.89 sec) Binary
 2455      Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2456      Date: 02/14/07 Time: 10:48:14 CPU Time: 0 0: 0:21.52 ( 21.52 sec) Binary
 2458      Time Step No. = 160 Elapsed Time = 1.502175E+01 days
 2459      Date: 02/14/07 Time: 10:48:17 CPU Time: 0 0: 0:24.82 ( 24.82 sec) Binary
 2461      Time Step No. = 180 Elapsed Time = 7.625276E+02 days
 2462      Date: 02/14/07 Time: 10:48:21 CPU Time: 0 0: 0:28.77 ( 28.77 sec) Binary
 2464      Time Step No. = 200 Elapsed Time = 6.318104E+03 days
 2465      Date: 02/14/07 Time: 10:48:27 CPU Time: 0 0: 0:34.31 ( 34.31 sec) Binary
 2467      Time Step No. = 220 Elapsed Time = 3.653252E+04 days
```

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2468    Date: 02/14/07 Time: 10:48:34 CPU Time: 0 0: 0:41.80 ( 41.80 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471    Date: 02/14/07 Time: 10:48:38 CPU Time: 0 0: 0:44.90 ( 44.90 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474    Date: 02/14/07 Time: 10:48:39 CPU Time: 0 0: 0:46.62 ( 46.62 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477    Date: 02/14/07 Time: 10:48:43 CPU Time: 0 0: 0:50.28 ( 50.28 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480    Date: 02/14/07 Time: 10:48:48 CPU Time: 0 0: 0:54.86 ( 54.86 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483    Date: 02/14/07 Time: 10:48:55 CPU Time: 0 0: 1: 1.91 ( 61.91 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486    Date: 02/14/07 Time: 10:49:03 CPU Time: 0 0: 1: 9.92 ( 69.92 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489    Date: 02/14/07 Time: 10:49:09 CPU Time: 0 0: 1:16.56 ( 76.56 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492    Date: 02/14/07 Time: 10:49:15 CPU Time: 0 0: 1:21.87 ( 81.87 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495    Date: 02/14/07 Time: 10:49:20 CPU Time: 0 0: 1:27.17 ( 87.17 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498    Date: 02/14/07 Time: 10:49:26 CPU Time: 0 0: 1:33.41 ( 93.41 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501    Date: 02/14/07 Time: 10:49:28 CPU Time: 0 0: 1:35.07 ( 95.07 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504    Date: 02/14/07 Time: 10:49:31 CPU Time: 0 0: 1:38.50 ( 98.50 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507    Date: 02/14/07 Time: 10:49:37 CPU Time: 0 0: 1:44.43 ( 104.43 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510    Date: 02/14/07 Time: 10:49:45 CPU Time: 0 0: 1:52.44 ( 112.44 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513    Date: 02/14/07 Time: 10:49:52 CPU Time: 0 0: 1:58.81 ( 118.81 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516    Date: 02/14/07 Time: 10:49:58 CPU Time: 0 0: 2: 4.95 ( 124.95 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519    Date: 02/14/07 Time: 10:50:00 CPU Time: 0 0: 2: 7.12 ( 127.12 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522    Date: 02/14/07 Time: 10:50:05 CPU Time: 0 0: 2:11.59 ( 131.59 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525    Date: 02/14/07 Time: 10:50:11 CPU Time: 0 0: 2:17.73 ( 137.73 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528    Date: 02/14/07 Time: 10:50:14 CPU Time: 0 0: 2:21.22 ( 141.22 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531    Date: 02/14/07 Time: 10:50:19 CPU Time: 0 0: 2:26.09 ( 146.09 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534    Date: 02/14/07 Time: 10:50:23 CPU Time: 0 0: 2:30.20 ( 150.20 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537    Date: 02/14/07 Time: 10:50:31 CPU Time: 0 0: 2:37.81 ( 157.81 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540    Date: 02/14/07 Time: 10:50:35 CPU Time: 0 0: 2:42.03 ( 162.03 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543    Date: 02/14/07 Time: 10:50:42 CPU Time: 0 0: 2:48.89 ( 168.89 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546    Date: 02/14/07 Time: 10:50:45 CPU Time: 0 0: 2:52.42 ( 172.42 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549    Date: 02/14/07 Time: 10:50:49 CPU Time: 0 0: 2:55.83 ( 175.83 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552    Date: 02/14/07 Time: 10:50:53 CPU Time: 0 0: 3: 0.03 ( 180.03 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555    Date: 02/14/07 Time: 10:50:59 CPU Time: 0 0: 3: 6.16 ( 186.16 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558    Date: 02/14/07 Time: 10:51:03 CPU Time: 0 0: 3: 9.44 ( 189.44 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561    Date: 02/14/07 Time: 10:51:06 CPU Time: 0 0: 3:12.69 ( 192.69 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564    Date: 02/14/07 Time: 10:51:11 CPU Time: 0 0: 3:17.66 ( 197.66 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567    Date: 02/14/07 Time: 10:51:16 CPU Time: 0 0: 3:22.92 ( 202.92 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570    Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 3:26.79 ( 206.79 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 4.432583E+05 days
2573    Date: 02/14/07 Time: 10:51:26 CPU Time: 0 0: 3:32.45 ( 212.45 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576    Date: 02/14/07 Time: 10:51:31 CPU Time: 0 0: 3:37.71 ( 217.71 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579    Date: 02/14/07 Time: 10:51:36 CPU Time: 0 0: 3:43.18 ( 223.18 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 4.534391E+05 days
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 2582    Date: 02/14/07 Time: 10:51:40 CPU Time: 0 0: 3:47.22 ( 227.22 sec) Binary
 2584    Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
 2585    Date: 02/14/07 Time: 10:51:47 CPU Time: 0 0: 3:53.60 ( 233.60 sec) Binary
 2587    Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
 2588    Date: 02/14/07 Time: 10:51:53 CPU Time: 0 0: 4: 0.01 ( 240.01 sec) Binary
 2590    Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
 2591    Date: 02/14/07 Time: 10:51:58 CPU Time: 0 0: 4: 4.53 ( 244.53 sec) Binary
 2593    Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
 2594    Date: 02/14/07 Time: 10:52:05 CPU Time: 0 0: 4:11.97 ( 251.97 sec) Binary
 2596    Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
 2597    Date: 02/14/07 Time: 10:52:13 CPU Time: 0 0: 4:19.97 ( 259.97 sec) Binary
 2599    Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
 2600    Date: 02/14/07 Time: 10:52:21 CPU Time: 0 0: 4:27.68 ( 267.68 sec) Binary
 2602    Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
 2603    Date: 02/14/07 Time: 10:52:27 CPU Time: 0 0: 4:33.85 ( 273.85 sec) Binary
 2605    Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
 2606    Date: 02/14/07 Time: 10:52:34 CPU Time: 0 0: 4:39.96 ( 279.96 sec) Binary
 2608    Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
 2609    Date: 02/14/07 Time: 10:52:41 CPU Time: 0 0: 4:47.11 ( 287.11 sec) Binary
 2611    Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
 2612    Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 4:53.34 ( 293.34 sec) Binary
 2614    Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
 2615    Date: 02/14/07 Time: 10:52:56 CPU Time: 0 0: 5: 2.51 ( 302.51 sec) Binary
 2617    Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
 2618    Date: 02/14/07 Time: 10:53:02 CPU Time: 0 0: 5: 8.05 ( 308.05 sec) Binary
 2620    Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
 2621    Date: 02/14/07 Time: 10:53:11 CPU Time: 0 0: 5:17.33 ( 317.33 sec) Binary
 2623    Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
 2624    Date: 02/14/07 Time: 10:53:18 CPU Time: 0 0: 5:24.07 ( 324.07 sec) Binary
 2626    Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
 2627    Date: 02/14/07 Time: 10:53:25 CPU Time: 0 0: 5:31.22 ( 331.22 sec) Binary
 2629    Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
 2630    Date: 02/14/07 Time: 10:53:31 CPU Time: 0 0: 5:37.44 ( 337.44 sec) Binary
 2632    Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
 2633    Date: 02/14/07 Time: 10:53:40 CPU Time: 0 0: 5:46.26 ( 346.26 sec) Binary
 2635    Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
 2636    Date: 02/14/07 Time: 10:53:46 CPU Time: 0 0: 5:51.75 ( 351.75 sec) Binary
 2638    Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
 2639    Date: 02/14/07 Time: 10:53:54 CPU Time: 0 0: 6: 0.12 ( 360.12 sec) Binary
 2641    Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
 2642    Date: 02/14/07 Time: 10:54:01 CPU Time: 0 0: 6: 7.57 ( 367.57 sec) Binary
 2644    Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
 2645    Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0: 6:13.88 ( 373.88 sec) Binary
 2647    Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
 2648    Date: 02/14/07 Time: 10:54:15 CPU Time: 0 0: 6:20.98 ( 380.98 sec) Binary
 2650    Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
 2651    Date: 02/14/07 Time: 10:54:21 CPU Time: 0 0: 6:26.94 ( 386.94 sec) Binary
 2653    Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
 2654    Date: 02/14/07 Time: 10:54:28 CPU Time: 0 0: 6:34.31 ( 394.31 sec) Binary
 2656    Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
 2657    Date: 02/14/07 Time: 10:54:34 CPU Time: 0 0: 6:40.50 ( 400.50 sec) Binary
 2659    Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
 2660    Date: 02/14/07 Time: 10:54:40 CPU Time: 0 0: 6:46.43 ( 406.43 sec) Binary
 2662    Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
 2663    Date: 02/14/07 Time: 10:54:48 CPU Time: 0 0: 6:53.74 ( 413.74 sec) Binary
 2665    Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
 2666    Date: 02/14/07 Time: 10:54:54 CPU Time: 0 0: 7: 0.38 ( 420.38 sec) Binary
 2668    Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
 2669    Date: 02/14/07 Time: 10:55:02 CPU Time: 0 0: 7: 8.39 ( 428.39 sec) Binary
 2671    Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
 2672    Date: 02/14/07 Time: 10:55:06 CPU Time: 0 0: 7:11.65 ( 431.65 sec) Binary
 2674    Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
 2675    Date: 02/14/07 Time: 10:55:10 CPU Time: 0 0: 7:15.25 ( 435.25 sec) Binary
 2677    Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
 2678    Date: 02/14/07 Time: 10:55:13 CPU Time: 0 0: 7:18.73 ( 438.73 sec) Binary
 2680    Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
 2681    Date: 02/14/07 Time: 10:55:16 CPU Time: 0 0: 7:22.03 ( 442.03 sec) Binary
 2684    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2450    Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) ASCII
 2452    Time Step No. = 131 Elapsed Time = 0.000000E+00 days
 2453    Date: 02/14/07 Time: 09:56:50 CPU Time: 0 0: 0:23.22 ( 23.22 sec) Binary
 2455    Time Step No. = 140 Elapsed Time = 1.728808E-01 days
 2456    Date: 02/14/07 Time: 09:56:52 CPU Time: 0 0: 0:25.17 ( 25.17 sec) Binary
 2458    Time Step No. = 160 Elapsed Time = 1.502175E+01 days
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2459    Date: 02/14/07 Time: 09:56:55 CPU Time: 0 0: 0:29.11 ( 29.11 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 7.625276E+02 days
2462    Date: 02/14/07 Time: 09:57:00 CPU Time: 0 0: 0:33.77 ( 33.77 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 6.318104E+03 days
2465    Date: 02/14/07 Time: 09:57:07 CPU Time: 0 0: 0:40.16 ( 40.16 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 3.653252E+04 days
2468    Date: 02/14/07 Time: 09:57:15 CPU Time: 0 0: 0:48.80 ( 48.80 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 3.665724E+04 days
2471    Date: 02/14/07 Time: 09:57:19 CPU Time: 0 0: 0:52.38 ( 52.38 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 3.667033E+04 days
2474    Date: 02/14/07 Time: 09:57:21 CPU Time: 0 0: 0:54.43 ( 54.43 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.708680E+04 days
2477    Date: 02/14/07 Time: 09:57:25 CPU Time: 0 0: 0:58.88 ( 58.88 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 5.092008E+04 days
2480    Date: 02/14/07 Time: 09:57:31 CPU Time: 0 0: 1: 4.46 ( 64.46 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 2.039729E+05 days
2483    Date: 02/14/07 Time: 09:57:40 CPU Time: 0 0: 1:13.01 ( 73.01 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 2.274452E+05 days
2486    Date: 02/14/07 Time: 09:57:49 CPU Time: 0 0: 1:22.77 ( 82.77 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.652467E+05 days
2489    Date: 02/14/07 Time: 09:57:58 CPU Time: 0 0: 1:30.87 ( 90.87 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 3.652814E+05 days
2492    Date: 02/14/07 Time: 09:58:04 CPU Time: 0 0: 1:37.34 ( 97.34 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 3.655778E+05 days
2495    Date: 02/14/07 Time: 09:58:11 CPU Time: 0 0: 1:43.81 ( 103.81 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 3.666037E+05 days
2498    Date: 02/14/07 Time: 09:58:18 CPU Time: 0 0: 1:51.39 ( 111.39 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 3.666104E+05 days
2501    Date: 02/14/07 Time: 09:58:20 CPU Time: 0 0: 1:53.43 ( 113.43 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 3.671914E+05 days
2504    Date: 02/14/07 Time: 09:58:25 CPU Time: 0 0: 1:57.61 ( 117.61 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 3.687879E+05 days
2507    Date: 02/14/07 Time: 09:58:32 CPU Time: 0 0: 2: 4.83 ( 124.83 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 3.778499E+05 days
2510    Date: 02/14/07 Time: 09:58:42 CPU Time: 0 0: 2:14.54 ( 134.54 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 3.789049E+05 days
2513    Date: 02/14/07 Time: 09:58:49 CPU Time: 0 0: 2:21.59 ( 141.59 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 3.809367E+05 days
2516    Date: 02/14/07 Time: 09:58:55 CPU Time: 0 0: 2:28.36 ( 148.36 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.809693E+05 days
2519    Date: 02/14/07 Time: 09:58:58 CPU Time: 0 0: 2:30.77 ( 150.77 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.836875E+05 days
2522    Date: 02/14/07 Time: 09:59:03 CPU Time: 0 0: 2:35.71 ( 155.71 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.871760E+05 days
2525    Date: 02/14/07 Time: 09:59:10 CPU Time: 0 0: 2:42.48 ( 162.48 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.879593E+05 days
2528    Date: 02/14/07 Time: 09:59:13 CPU Time: 0 0: 2:46.34 ( 166.34 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.964171E+05 days
2531    Date: 02/14/07 Time: 09:59:19 CPU Time: 0 0: 2:51.71 ( 171.71 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.984106E+05 days
2534    Date: 02/14/07 Time: 09:59:23 CPU Time: 0 0: 2:56.26 ( 176.26 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 4.040124E+05 days
2537    Date: 02/14/07 Time: 09:59:32 CPU Time: 0 0: 3: 4.67 ( 184.67 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 4.084891E+05 days
2540    Date: 02/14/07 Time: 09:59:37 CPU Time: 0 0: 3: 9.34 ( 189.34 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 4.148775E+05 days
2543    Date: 02/14/07 Time: 09:59:45 CPU Time: 0 0: 3:17.23 ( 197.23 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 4.152695E+05 days
2546    Date: 02/14/07 Time: 09:59:49 CPU Time: 0 0: 3:21.47 ( 201.47 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 4.155957E+05 days
2549    Date: 02/14/07 Time: 09:59:53 CPU Time: 0 0: 3:25.54 ( 205.54 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 4.159067E+05 days
2552    Date: 02/14/07 Time: 09:59:58 CPU Time: 0 0: 3:30.57 ( 210.57 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.230351E+05 days
2555    Date: 02/14/07 Time: 10:00:06 CPU Time: 0 0: 3:37.88 ( 217.88 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.231681E+05 days
2558    Date: 02/14/07 Time: 10:00:09 CPU Time: 0 0: 3:41.77 ( 221.77 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.246312E+05 days
2561    Date: 02/14/07 Time: 10:00:13 CPU Time: 0 0: 3:45.65 ( 225.65 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.284259E+05 days
2564    Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 3:51.58 ( 231.58 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 4.288881E+05 days
2567    Date: 02/14/07 Time: 10:00:26 CPU Time: 0 0: 3:57.85 ( 237.85 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 4.293308E+05 days
2570    Date: 02/14/07 Time: 10:00:30 CPU Time: 0 0: 4: 2.54 ( 242.54 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 4.432583E+05 days
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2573    Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 4: 9.44 ( 249.44 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 4.443255E+05 days
2576    Date: 02/14/07 Time: 10:00:44 CPU Time: 0 0: 4:15.87 ( 255.87 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 4.483126E+05 days
2579    Date: 02/14/07 Time: 10:00:50 CPU Time: 0 0: 4:22.56 ( 262.56 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 4.534391E+05 days
2582    Date: 02/14/07 Time: 10:00:55 CPU Time: 0 0: 4:27.48 ( 267.48 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 4.699167E+05 days
2585    Date: 02/14/07 Time: 10:01:03 CPU Time: 0 0: 4:35.26 ( 275.26 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 4.858432E+05 days
2588    Date: 02/14/07 Time: 10:01:11 CPU Time: 0 0: 4:43.04 ( 283.04 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 4.937961E+05 days
2591    Date: 02/14/07 Time: 10:01:17 CPU Time: 0 0: 4:48.52 ( 288.52 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 5.466139E+05 days
2594    Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 4:57.51 ( 297.51 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 5.780318E+05 days
2597    Date: 02/14/07 Time: 10:01:35 CPU Time: 0 0: 5: 7.24 ( 307.24 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 6.270315E+05 days
2600    Date: 02/14/07 Time: 10:01:45 CPU Time: 0 0: 5:16.63 ( 316.63 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 7.054870E+05 days
2603    Date: 02/14/07 Time: 10:01:52 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 7.169027E+05 days
2606    Date: 02/14/07 Time: 10:02:00 CPU Time: 0 0: 5:31.57 ( 331.57 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 7.402913E+05 days
2609    Date: 02/14/07 Time: 10:02:08 CPU Time: 0 0: 5:40.26 ( 340.26 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 7.847129E+05 days
2612    Date: 02/14/07 Time: 10:02:16 CPU Time: 0 0: 5:47.86 ( 347.86 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 8.332294E+05 days
2615    Date: 02/14/07 Time: 10:02:27 CPU Time: 0 0: 5:59.01 ( 359.01 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 8.509701E+05 days
2618    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 6: 5.77 ( 365.77 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 9.067910E+05 days
2621    Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 6:17.02 ( 377.02 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 9.383181E+05 days
2624    Date: 02/14/07 Time: 10:02:54 CPU Time: 0 0: 6:25.21 ( 385.21 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 9.948692E+05 days
2627    Date: 02/14/07 Time: 10:03:02 CPU Time: 0 0: 6:33.92 ( 393.92 sec) Binary
2629    Time Step No. = 1300 Elapsed Time = 1.246977E+06 days
2630    Date: 02/14/07 Time: 10:03:10 CPU Time: 0 0: 6:41.33 ( 401.33 sec) Binary
2632    Time Step No. = 1320 Elapsed Time = 1.378669E+06 days
2633    Date: 02/14/07 Time: 10:03:19 CPU Time: 0 0: 6:51.09 ( 411.09 sec) Binary
2635    Time Step No. = 1340 Elapsed Time = 1.477485E+06 days
2636    Date: 02/14/07 Time: 10:03:26 CPU Time: 0 0: 6:57.17 ( 417.17 sec) Binary
2638    Time Step No. = 1360 Elapsed Time = 1.512368E+06 days
2639    Date: 02/14/07 Time: 10:03:35 CPU Time: 0 0: 7: 6.42 ( 426.42 sec) Binary
2641    Time Step No. = 1380 Elapsed Time = 1.528588E+06 days
2642    Date: 02/14/07 Time: 10:03:43 CPU Time: 0 0: 7:14.66 ( 434.66 sec) Binary
2644    Time Step No. = 1400 Elapsed Time = 1.544193E+06 days
2645    Date: 02/14/07 Time: 10:03:50 CPU Time: 0 0: 7:21.63 ( 441.63 sec) Binary
2647    Time Step No. = 1420 Elapsed Time = 1.579430E+06 days
2648    Date: 02/14/07 Time: 10:03:58 CPU Time: 0 0: 7:29.70 ( 449.70 sec) Binary
2650    Time Step No. = 1440 Elapsed Time = 1.605319E+06 days
2651    Date: 02/14/07 Time: 10:04:05 CPU Time: 0 0: 7:36.78 ( 456.78 sec) Binary
2653    Time Step No. = 1460 Elapsed Time = 1.707900E+06 days
2654    Date: 02/14/07 Time: 10:04:14 CPU Time: 0 0: 7:45.54 ( 465.54 sec) Binary
2656    Time Step No. = 1480 Elapsed Time = 1.729509E+06 days
2657    Date: 02/14/07 Time: 10:04:22 CPU Time: 0 0: 7:52.89 ( 472.89 sec) Binary
2659    Time Step No. = 1500 Elapsed Time = 1.810878E+06 days
2660    Date: 02/14/07 Time: 10:04:29 CPU Time: 0 0: 7:59.97 ( 479.97 sec) Binary
2662    Time Step No. = 1520 Elapsed Time = 1.877326E+06 days
2663    Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 8: 8.67 ( 488.67 sec) Binary
2665    Time Step No. = 1540 Elapsed Time = 1.994765E+06 days
2666    Date: 02/14/07 Time: 10:04:45 CPU Time: 0 0: 8:16.55 ( 496.55 sec) Binary
2668    Time Step No. = 1560 Elapsed Time = 2.126096E+06 days
2669    Date: 02/14/07 Time: 10:04:55 CPU Time: 0 0: 8:25.99 ( 505.99 sec) Binary
2671    Time Step No. = 1580 Elapsed Time = 2.173060E+06 days
2672    Date: 02/14/07 Time: 10:04:59 CPU Time: 0 0: 8:29.90 ( 509.90 sec) Binary
2674    Time Step No. = 1600 Elapsed Time = 2.558345E+06 days
2675    Date: 02/14/07 Time: 10:05:03 CPU Time: 0 0: 8:34.31 ( 514.31 sec) Binary
2677    Time Step No. = 1620 Elapsed Time = 2.958345E+06 days
2678    Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 8:38.42 ( 518.42 sec) Binary
2680    Time Step No. = 1640 Elapsed Time = 3.358345E+06 days
2681    Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 8:42.20 ( 522.20 sec) Binary
2684    Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
 2700     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 2701     CPU Time (total for run) = 444.64 sec = 0.12351 hr
 2702    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 2700     CPU Time (this time step) = 0.20 sec = 0.00006 hr
 2701     CPU Time (total for run) = 525.21 sec = 0.14589 hr
 2702    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1
 3378     Date: 02/14/07 Time: 10:55:19 CPU Time: 0 0: 7:24.66 ( 444.66 sec) ASCII
 3380     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3381     Date: 02/14/07 Time: 10:55:19 CPU Time: 0 0: 7:24.66 ( 444.66 sec) Binary
 3386     ******************************************************************************
 3387     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3388     * Completed: 02/14/07 at 10:55:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3389     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
 3378     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) ASCII
 3380     Time Step No. = 1655 Elapsed Time = 3.652431E+06 days
 3381     Date: 02/14/07 Time: 10:05:14 CPU Time: 0 0: 8:45.24 ( 525.24 sec) Binary
 3386     ******************************************************************************
 3387     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3388     * Completed: 02/14/07 at 10:05:14 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3389     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 172

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES45_TEST7_V012.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V012]BF2_QB0600_ES47_TEST7_V012.OUT;1
```

BF2_QB0600_ES45_TEST7_V013_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
    3     ** Begun on: 02/14/07 at 10:51:00 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
    3     ** Begun on: 02/14/07 at 09:59:42 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_TEST7_V013.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

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   72      *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.SUM;1
   77      *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.SUM;1
   77      *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.BIN;1
   82      *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.BIN;1
   82      *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.ROT;1
   87      *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.ROT;1
   87      *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
 1772      CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773      CPU Time (total for run) = 19.45 sec = 0.00540 hr
 1774      *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 1772      CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773      CPU Time (total for run) = 21.39 sec = 0.00594 hr
 1774      *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
 2450      Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 0:19.46 ( 19.46 sec) ASCII
 2452      Time Step No. = 140 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:51:20 CPU Time: 0 0: 0:19.46 ( 19.46 sec) Binary
 2455      Time Step No. = 160 Elapsed Time = 3.349069E-03 days
 2456      Date: 02/14/07 Time: 10:51:23 CPU Time: 0 0: 0:22.72 ( 22.72 sec) Binary
 2458      Time Step No. = 180 Elapsed Time = 2.938345E-01 days
 2459      Date: 02/14/07 Time: 10:51:26 CPU Time: 0 0: 0:25.75 ( 25.75 sec) Binary
 2461      Time Step No. = 200 Elapsed Time = 2.474097E+01 days
 2462      Date: 02/14/07 Time: 10:51:29 CPU Time: 0 0: 0:28.83 ( 28.83 sec) Binary
 2464      Time Step No. = 220 Elapsed Time = 8.724359E+02 days
 2465      Date: 02/14/07 Time: 10:51:34 CPU Time: 0 0: 0:33.59 ( 33.59 sec) Binary
 2467      Time Step No. = 240 Elapsed Time = 1.061273E+04 days
 2468      Date: 02/14/07 Time: 10:51:39 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
 2470      Time Step No. = 260 Elapsed Time = 2.155677E+04 days
 2471      Date: 02/14/07 Time: 10:51:46 CPU Time: 0 0: 0:45.24 ( 45.24 sec) Binary
 2473      Time Step No. = 280 Elapsed Time = 3.652647E+04 days
 2474      Date: 02/14/07 Time: 10:51:50 CPU Time: 0 0: 0:50.05 ( 50.05 sec) Binary
 2476      Time Step No. = 300 Elapsed Time = 3.665348E+04 days
 2477      Date: 02/14/07 Time: 10:51:54 CPU Time: 0 0: 0:54.04 ( 54.04 sec) Binary
 2479      Time Step No. = 320 Elapsed Time = 3.665883E+04 days
 2480      Date: 02/14/07 Time: 10:51:56 CPU Time: 0 0: 0:55.64 ( 55.64 sec) Binary
 2482      Time Step No. = 340 Elapsed Time = 3.699010E+04 days
 2483      Date: 02/14/07 Time: 10:51:59 CPU Time: 0 0: 0:59.02 ( 59.02 sec) Binary
 2485      Time Step No. = 360 Elapsed Time = 6.033302E+04 days
 2486      Date: 02/14/07 Time: 10:52:04 CPU Time: 0 0: 1: 3.66 ( 63.66 sec) Binary
 2488      Time Step No. = 380 Elapsed Time = 1.684360E+05 days
 2489      Date: 02/14/07 Time: 10:52:11 CPU Time: 0 0: 1:10.77 ( 70.77 sec) Binary
 2491      Time Step No. = 400 Elapsed Time = 3.612153E+05 days
 2492      Date: 02/14/07 Time: 10:52:19 CPU Time: 0 0: 1:18.38 ( 78.38 sec) Binary
 2494      Time Step No. = 420 Elapsed Time = 3.652431E+05 days
 2495      Date: 02/14/07 Time: 10:52:26 CPU Time: 0 0: 1:25.89 ( 85.89 sec) Binary
 2497      Time Step No. = 440 Elapsed Time = 3.652431E+05 days
 2498      Date: 02/14/07 Time: 10:52:29 CPU Time: 0 0: 1:28.23 ( 88.23 sec) Binary
 2500      Time Step No. = 460 Elapsed Time = 3.652440E+05 days
```

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2501    Date: 02/14/07 Time: 10:52:31 CPU Time: 0 0: 1:30.58 ( 90.58 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 3.652772E+05 days
2504    Date: 02/14/07 Time: 10:52:35 CPU Time: 0 0: 1:34.77 ( 94.77 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 3.654262E+05 days
2507    Date: 02/14/07 Time: 10:52:41 CPU Time: 0 0: 1:40.79 ( 100.79 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 3.662645E+05 days
2510    Date: 02/14/07 Time: 10:52:45 CPU Time: 0 0: 1:44.63 ( 104.63 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513    Date: 02/14/07 Time: 10:52:47 CPU Time: 0 0: 1:46.34 ( 106.34 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516    Date: 02/14/07 Time: 10:52:49 CPU Time: 0 0: 1:48.62 ( 108.62 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519    Date: 02/14/07 Time: 10:52:56 CPU Time: 0 0: 1:55.67 ( 115.67 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522    Date: 02/14/07 Time: 10:53:01 CPU Time: 0 0: 2: 0.48 ( 120.48 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525    Date: 02/14/07 Time: 10:53:08 CPU Time: 0 0: 2: 7.06 ( 127.06 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528    Date: 02/14/07 Time: 10:53:12 CPU Time: 0 0: 2:11.63 ( 131.63 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531    Date: 02/14/07 Time: 10:53:16 CPU Time: 0 0: 2:15.23 ( 135.23 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534    Date: 02/14/07 Time: 10:53:22 CPU Time: 0 0: 2:21.87 ( 141.87 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537    Date: 02/14/07 Time: 10:53:27 CPU Time: 0 0: 2:26.90 ( 146.90 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540    Date: 02/14/07 Time: 10:53:31 CPU Time: 0 0: 2:30.85 ( 150.85 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543    Date: 02/14/07 Time: 10:53:37 CPU Time: 0 0: 2:36.04 ( 156.04 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546    Date: 02/14/07 Time: 10:53:42 CPU Time: 0 0: 2:41.03 ( 161.03 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549    Date: 02/14/07 Time: 10:53:47 CPU Time: 0 0: 2:46.19 ( 166.19 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552    Date: 02/14/07 Time: 10:53:52 CPU Time: 0 0: 2:50.96 ( 170.96 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555    Date: 02/14/07 Time: 10:53:57 CPU Time: 0 0: 2:56.23 ( 176.23 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558    Date: 02/14/07 Time: 10:54:03 CPU Time: 0 0: 3: 1.89 ( 181.89 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561    Date: 02/14/07 Time: 10:54:08 CPU Time: 0 0: 3: 7.16 ( 187.16 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564    Date: 02/14/07 Time: 10:54:13 CPU Time: 0 0: 3:12.75 ( 192.75 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567    Date: 02/14/07 Time: 10:54:21 CPU Time: 0 0: 3:20.03 ( 200.03 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570    Date: 02/14/07 Time: 10:54:29 CPU Time: 0 0: 3:28.41 ( 208.41 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573    Date: 02/14/07 Time: 10:54:35 CPU Time: 0 0: 3:34.02 ( 214.02 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576    Date: 02/14/07 Time: 10:54:42 CPU Time: 0 0: 3:41.70 ( 221.70 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579    Date: 02/14/07 Time: 10:54:49 CPU Time: 0 0: 3:47.93 ( 227.93 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582    Date: 02/14/07 Time: 10:54:56 CPU Time: 0 0: 3:54.96 ( 234.96 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585    Date: 02/14/07 Time: 10:55:03 CPU Time: 0 0: 4: 2.21 ( 242.21 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588    Date: 02/14/07 Time: 10:55:10 CPU Time: 0 0: 4: 9.50 ( 249.50 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591    Date: 02/14/07 Time: 10:55:15 CPU Time: 0 0: 4:13.95 ( 253.95 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594    Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 4:20.50 ( 260.50 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597    Date: 02/14/07 Time: 10:55:29 CPU Time: 0 0: 4:28.28 ( 268.28 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600    Date: 02/14/07 Time: 10:55:36 CPU Time: 0 0: 4:35.41 ( 275.41 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603    Date: 02/14/07 Time: 10:55:44 CPU Time: 0 0: 4:43.47 ( 283.47 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606    Date: 02/14/07 Time: 10:55:50 CPU Time: 0 0: 4:49.05 ( 289.05 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609    Date: 02/14/07 Time: 10:55:58 CPU Time: 0 0: 4:57.41 ( 297.41 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612    Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 5: 3.50 ( 303.50 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
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 2615     Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 5: 8.95 ( 308.95 sec) Binary
 2617     Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
 2618     Date: 02/14/07 Time: 10:56:16 CPU Time: 0 0: 5:15.50 ( 315.50 sec) Binary
 2620     Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
 2621     Date: 02/14/07 Time: 10:56:21 CPU Time: 0 0: 5:20.48 ( 320.48 sec) Binary
 2623     Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
 2624     Date: 02/14/07 Time: 10:56:30 CPU Time: 0 0: 5:28.71 ( 328.71 sec) Binary
 2626     Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
 2627     Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0: 5:34.86 ( 334.86 sec) Binary
 2629     Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
 2630     Date: 02/14/07 Time: 10:56:43 CPU Time: 0 0: 5:42.16 ( 342.16 sec) Binary
 2632     Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
 2633     Date: 02/14/07 Time: 10:56:50 CPU Time: 0 0: 5:48.73 ( 348.73 sec) Binary
 2635     Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
 2636     Date: 02/14/07 Time: 10:56:54 CPU Time: 0 0: 5:52.82 ( 352.82 sec) Binary
 2638     Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
 2639     Date: 02/14/07 Time: 10:57:01 CPU Time: 0 0: 5:59.74 ( 359.74 sec) Binary
 2641     Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
 2642     Date: 02/14/07 Time: 10:57:06 CPU Time: 0 0: 6: 4.74 ( 364.74 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
 2645     Date: 02/14/07 Time: 10:57:12 CPU Time: 0 0: 6:10.79 ( 370.79 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
 2648     Date: 02/14/07 Time: 10:57:18 CPU Time: 0 0: 6:17.35 ( 377.35 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
 2651     Date: 02/14/07 Time: 10:57:22 CPU Time: 0 0: 6:20.74 ( 380.74 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
 2654     Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 6:27.45 ( 387.45 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
 2657     Date: 02/14/07 Time: 10:57:35 CPU Time: 0 0: 6:34.36 ( 394.36 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2660     Date: 02/14/07 Time: 10:57:40 CPU Time: 0 0: 6:38.90 ( 398.90 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2663     Date: 02/14/07 Time: 10:57:44 CPU Time: 0 0: 6:42.99 ( 402.99 sec) Binary
 2666     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2450     Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) ASCII
 2452     Time Step No. = 140 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:00:03 CPU Time: 0 0: 0:21.41 ( 21.41 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 3.349069E-03 days
 2456     Date: 02/14/07 Time: 10:00:07 CPU Time: 0 0: 0:24.99 ( 24.99 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 2.938345E-01 days
 2459     Date: 02/14/07 Time: 10:00:10 CPU Time: 0 0: 0:28.33 ( 28.33 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 2.474097E+01 days
 2462     Date: 02/14/07 Time: 10:00:14 CPU Time: 0 0: 0:31.73 ( 31.73 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.724359E+02 days
 2465     Date: 02/14/07 Time: 10:00:19 CPU Time: 0 0: 0:36.96 ( 36.96 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.061273E+04 days
 2468     Date: 02/14/07 Time: 10:00:25 CPU Time: 0 0: 0:42.87 ( 42.87 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 2.155677E+04 days
 2471     Date: 02/14/07 Time: 10:00:32 CPU Time: 0 0: 0:49.72 ( 49.72 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 3.652647E+04 days
 2474     Date: 02/14/07 Time: 10:00:37 CPU Time: 0 0: 0:55.02 ( 55.02 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.665348E+04 days
 2477     Date: 02/14/07 Time: 10:00:41 CPU Time: 0 0: 0:59.42 ( 59.42 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665883E+04 days
 2480     Date: 02/14/07 Time: 10:00:43 CPU Time: 0 0: 1: 1.18 ( 61.18 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.699010E+04 days
 2483     Date: 02/14/07 Time: 10:00:47 CPU Time: 0 0: 1: 4.89 ( 64.89 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 6.033302E+04 days
 2486     Date: 02/14/07 Time: 10:00:52 CPU Time: 0 0: 1: 9.99 ( 69.99 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 1.684360E+05 days
 2489     Date: 02/14/07 Time: 10:01:00 CPU Time: 0 0: 1:17.78 ( 77.78 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.612153E+05 days
 2492     Date: 02/14/07 Time: 10:01:08 CPU Time: 0 0: 1:26.16 ( 86.16 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.652431E+05 days
 2495     Date: 02/14/07 Time: 10:01:16 CPU Time: 0 0: 1:34.41 ( 94.41 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.652431E+05 days
 2498     Date: 02/14/07 Time: 10:01:19 CPU Time: 0 0: 1:37.00 ( 97.00 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 3.652440E+05 days
 2501     Date: 02/14/07 Time: 10:01:22 CPU Time: 0 0: 1:39.59 ( 99.59 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 3.652772E+05 days
 2504     Date: 02/14/07 Time: 10:01:26 CPU Time: 0 0: 1:44.20 ( 104.20 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 3.654262E+05 days
 2507     Date: 02/14/07 Time: 10:01:33 CPU Time: 0 0: 1:50.81 ( 110.81 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 3.662645E+05 days
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2510    Date: 02/14/07 Time: 10:01:37 CPU Time: 0 0: 1:55.04 ( 115.04 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 3.667286E+05 days
2513    Date: 02/14/07 Time: 10:01:39 CPU Time: 0 0: 1:56.94 ( 116.94 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 3.669189E+05 days
2516    Date: 02/14/07 Time: 10:01:41 CPU Time: 0 0: 1:59.48 ( 119.48 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.688841E+05 days
2519    Date: 02/14/07 Time: 10:01:49 CPU Time: 0 0: 2: 7.23 ( 127.23 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.692609E+05 days
2522    Date: 02/14/07 Time: 10:01:55 CPU Time: 0 0: 2:12.52 ( 132.52 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.727217E+05 days
2525    Date: 02/14/07 Time: 10:02:02 CPU Time: 0 0: 2:19.78 ( 139.78 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.728322E+05 days
2528    Date: 02/14/07 Time: 10:02:07 CPU Time: 0 0: 2:24.81 ( 144.81 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.736573E+05 days
2531    Date: 02/14/07 Time: 10:02:11 CPU Time: 0 0: 2:28.79 ( 148.79 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.751879E+05 days
2534    Date: 02/14/07 Time: 10:02:18 CPU Time: 0 0: 2:36.13 ( 156.13 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.753562E+05 days
2537    Date: 02/14/07 Time: 10:02:24 CPU Time: 0 0: 2:41.67 ( 161.67 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.760316E+05 days
2540    Date: 02/14/07 Time: 10:02:28 CPU Time: 0 0: 2:46.00 ( 166.00 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.825332E+05 days
2543    Date: 02/14/07 Time: 10:02:34 CPU Time: 0 0: 2:51.74 ( 171.74 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.866955E+05 days
2546    Date: 02/14/07 Time: 10:02:40 CPU Time: 0 0: 2:57.23 ( 177.23 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.873444E+05 days
2549    Date: 02/14/07 Time: 10:02:45 CPU Time: 0 0: 3: 2.89 ( 182.89 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.889694E+05 days
2552    Date: 02/14/07 Time: 10:02:51 CPU Time: 0 0: 3: 8.13 ( 188.13 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 4.148787E+05 days
2555    Date: 02/14/07 Time: 10:02:56 CPU Time: 0 0: 3:13.93 ( 193.93 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 4.172059E+05 days
2558    Date: 02/14/07 Time: 10:03:03 CPU Time: 0 0: 3:20.19 ( 200.19 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 4.696437E+05 days
2561    Date: 02/14/07 Time: 10:03:09 CPU Time: 0 0: 3:26.00 ( 206.00 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 4.778589E+05 days
2564    Date: 02/14/07 Time: 10:03:15 CPU Time: 0 0: 3:32.43 ( 212.43 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 5.620786E+05 days
2567    Date: 02/14/07 Time: 10:03:23 CPU Time: 0 0: 3:40.80 ( 220.80 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 6.268580E+05 days
2570    Date: 02/14/07 Time: 10:03:33 CPU Time: 0 0: 3:50.44 ( 230.44 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 6.704336E+05 days
2573    Date: 02/14/07 Time: 10:03:40 CPU Time: 0 0: 3:56.93 ( 236.93 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 9.857664E+05 days
2576    Date: 02/14/07 Time: 10:03:49 CPU Time: 0 0: 4: 5.76 ( 245.76 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 1.073310E+06 days
2579    Date: 02/14/07 Time: 10:03:56 CPU Time: 0 0: 4:13.00 ( 253.00 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 1.150990E+06 days
2582    Date: 02/14/07 Time: 10:04:04 CPU Time: 0 0: 4:21.02 ( 261.02 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 1.287816E+06 days
2585    Date: 02/14/07 Time: 10:04:12 CPU Time: 0 0: 4:29.33 ( 269.33 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 1.308346E+06 days
2588    Date: 02/14/07 Time: 10:04:21 CPU Time: 0 0: 4:37.72 ( 277.72 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 1.456825E+06 days
2591    Date: 02/14/07 Time: 10:04:26 CPU Time: 0 0: 4:42.82 ( 282.82 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 1.537825E+06 days
2594    Date: 02/14/07 Time: 10:04:33 CPU Time: 0 0: 4:50.27 ( 290.27 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 1.696934E+06 days
2597    Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 4:59.13 ( 299.13 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 1.751881E+06 days
2600    Date: 02/14/07 Time: 10:04:50 CPU Time: 0 0: 5: 7.35 ( 307.35 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 1.820898E+06 days
2603    Date: 02/14/07 Time: 10:05:00 CPU Time: 0 0: 5:16.62 ( 316.62 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 1.881985E+06 days
2606    Date: 02/14/07 Time: 10:05:06 CPU Time: 0 0: 5:23.09 ( 323.09 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 1.916306E+06 days
2609    Date: 02/14/07 Time: 10:05:16 CPU Time: 0 0: 5:33.16 ( 333.16 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 1.918460E+06 days
2612    Date: 02/14/07 Time: 10:05:23 CPU Time: 0 0: 5:40.34 ( 340.34 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 1.946643E+06 days
2615    Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 5:46.69 ( 346.69 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 1.960029E+06 days
2618    Date: 02/14/07 Time: 10:05:37 CPU Time: 0 0: 5:54.42 ( 354.42 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 2.008712E+06 days
2621    Date: 02/14/07 Time: 10:05:43 CPU Time: 0 0: 6: 0.32 ( 360.32 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 2.077272E+06 days
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 2624    Date: 02/14/07 Time: 10:05:53 CPU Time: 0 0: 6:10.03 ( 370.03 sec) Binary
 2626    Time Step No. = 1300 Elapsed Time = 2.097683E+06 days
 2627    Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 6:17.28 ( 377.28 sec) Binary
 2629    Time Step No. = 1320 Elapsed Time = 2.146337E+06 days
 2630    Date: 02/14/07 Time: 10:06:09 CPU Time: 0 0: 6:25.64 ( 385.64 sec) Binary
 2632    Time Step No. = 1340 Elapsed Time = 2.165527E+06 days
 2633    Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 6:32.86 ( 392.86 sec) Binary
 2635    Time Step No. = 1360 Elapsed Time = 2.287329E+06 days
 2636    Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 6:37.40 ( 397.40 sec) Binary
 2638    Time Step No. = 1380 Elapsed Time = 2.468490E+06 days
 2639    Date: 02/14/07 Time: 10:06:28 CPU Time: 0 0: 6:45.00 ( 405.00 sec) Binary
 2641    Time Step No. = 1400 Elapsed Time = 2.868490E+06 days
 2642    Date: 02/14/07 Time: 10:06:34 CPU Time: 0 0: 6:50.47 ( 410.47 sec) Binary
 2644    Time Step No. = 1420 Elapsed Time = 2.934390E+06 days
 2645    Date: 02/14/07 Time: 10:06:40 CPU Time: 0 0: 6:57.02 ( 417.02 sec) Binary
 2647    Time Step No. = 1440 Elapsed Time = 2.959040E+06 days
 2648    Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 7: 4.18 ( 424.18 sec) Binary
 2650    Time Step No. = 1460 Elapsed Time = 2.965271E+06 days
 2651    Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 7: 7.89 ( 427.89 sec) Binary
 2653    Time Step No. = 1480 Elapsed Time = 3.018341E+06 days
 2654    Date: 02/14/07 Time: 10:06:59 CPU Time: 0 0: 7:15.19 ( 435.19 sec) Binary
 2656    Time Step No. = 1500 Elapsed Time = 3.091685E+06 days
 2657    Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 7:22.74 ( 442.74 sec) Binary
 2659    Time Step No. = 1520 Elapsed Time = 3.113442E+06 days
 2660    Date: 02/14/07 Time: 10:07:11 CPU Time: 0 0: 7:27.70 ( 447.70 sec) Binary
 2662    Time Step No. = 1540 Elapsed Time = 3.431278E+06 days
 2663    Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 7:32.17 ( 452.17 sec) Binary
 2666    Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
 2682    CPU Time (this time step) = 0.11 sec = 0.00003 hr
 2683    CPU Time (total for run) = 405.26 sec = 0.11257 hr
 2684    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 2682    CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2683    CPU Time (total for run) = 454.65 sec = 0.12629 hr
 2684    ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1
 3360    Date: 02/14/07 Time: 10:57:46 CPU Time: 0 0: 6:45.27 ( 405.27 sec) ASCII
 3362    Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
 3363    Date: 02/14/07 Time: 10:57:46 CPU Time: 0 0: 6:45.27 ( 405.27 sec) Binary
 3368    ******************************************************************************
 3369    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370    * Completed: 02/14/07 at 10:57:46 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3371    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
 3360    Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) ASCII
 3362    Time Step No. = 1552 Elapsed Time = 3.652431E+06 days
 3363    Date: 02/14/07 Time: 10:07:18 CPU Time: 0 0: 7:34.66 ( 454.66 sec) Binary
 3368    ******************************************************************************
 3369    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3370    * Completed: 02/14/07 at 10:07:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3371    ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 160

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES45_TEST7_V013.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V013]BF2_QB0600_ES47_TEST7_V013.OUT;1
```

BF2_QB0600_ES45_TEST7_V014_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
    3    ** Begun on: 02/14/07 at 10:54:57 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ******************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
    3     ** Begun on: 02/14/07 at 10:03:56 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_TEST7_V014.INP;2
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 24.30 sec = 0.00675 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 26.91 sec = 0.00747 hr
 1774     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
 2450     Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 0:24.31 ( 24.31 sec) ASCII
 2452     Time Step No. = 143 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:55:21 CPU Time: 0 0: 0:24.32 ( 24.32 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.888386E-01 days
```

```
2456   Date: 02/14/07 Time: 10:55:26 CPU Time: 0 0: 0:28.82 ( 28.82 sec) Binary
2458   Time Step No. = 180 Elapsed Time = 1.049209E+01 days
2459   Date: 02/14/07 Time: 10:55:29 CPU Time: 0 0: 0:32.61 ( 32.61 sec) Binary
2461   Time Step No. = 200 Elapsed Time = 7.381917E+01 days
2462   Date: 02/14/07 Time: 10:55:33 CPU Time: 0 0: 0:36.56 ( 36.56 sec) Binary
2464   Time Step No. = 220 Elapsed Time = 1.303821E+03 days
2465   Date: 02/14/07 Time: 10:55:38 CPU Time: 0 0: 0:41.70 ( 41.70 sec) Binary
2467   Time Step No. = 240 Elapsed Time = 1.029855E+04 days
2468   Date: 02/14/07 Time: 10:55:44 CPU Time: 0 0: 0:47.33 ( 47.33 sec) Binary
2470   Time Step No. = 260 Elapsed Time = 1.453486E+04 days
2471   Date: 02/14/07 Time: 10:55:48 CPU Time: 0 0: 0:51.29 ( 51.29 sec) Binary
2473   Time Step No. = 280 Elapsed Time = 1.897038E+04 days
2474   Date: 02/14/07 Time: 10:55:53 CPU Time: 0 0: 0:56.00 ( 56.00 sec) Binary
2476   Time Step No. = 300 Elapsed Time = 3.655441E+04 days
2477   Date: 02/14/07 Time: 10:56:01 CPU Time: 0 0: 1: 3.46 ( 63.46 sec) Binary
2479   Time Step No. = 320 Elapsed Time = 3.665178E+04 days
2480   Date: 02/14/07 Time: 10:56:05 CPU Time: 0 0: 1: 7.56 ( 67.56 sec) Binary
2482   Time Step No. = 340 Elapsed Time = 3.666487E+04 days
2483   Date: 02/14/07 Time: 10:56:07 CPU Time: 0 0: 1: 9.44 ( 69.44 sec) Binary
2485   Time Step No. = 360 Elapsed Time = 3.745088E+04 days
2486   Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 1:12.88 ( 72.88 sec) Binary
2488   Time Step No. = 380 Elapsed Time = 6.127717E+04 days
2489   Date: 02/14/07 Time: 10:56:16 CPU Time: 0 0: 1:18.78 ( 78.78 sec) Binary
2491   Time Step No. = 400 Elapsed Time = 6.603191E+04 days
2492   Date: 02/14/07 Time: 10:56:21 CPU Time: 0 0: 1:23.92 ( 83.92 sec) Binary
2494   Time Step No. = 420 Elapsed Time = 7.703200E+04 days
2495   Date: 02/14/07 Time: 10:56:26 CPU Time: 0 0: 1:28.48 ( 88.48 sec) Binary
2497   Time Step No. = 440 Elapsed Time = 1.085280E+05 days
2498   Date: 02/14/07 Time: 10:56:36 CPU Time: 0 0: 1:38.66 ( 98.66 sec) Binary
2500   Time Step No. = 460 Elapsed Time = 1.090970E+05 days
2501   Date: 02/14/07 Time: 10:56:43 CPU Time: 0 0: 1:45.49 ( 105.49 sec) Binary
2503   Time Step No. = 480 Elapsed Time = 1.344497E+05 days
2504   Date: 02/14/07 Time: 10:56:53 CPU Time: 0 0: 1:55.30 ( 115.30 sec) Binary
2506   Time Step No. = 500 Elapsed Time = 1.371412E+05 days
2507   Date: 02/14/07 Time: 10:56:56 CPU Time: 0 0: 1:59.16 ( 119.16 sec) Binary
2509   Time Step No. = 520 Elapsed Time = 1.661861E+05 days
2510   Date: 02/14/07 Time: 10:57:05 CPU Time: 0 0: 2: 8.03 ( 128.03 sec) Binary
2512   Time Step No. = 540 Elapsed Time = 1.808157E+05 days
2513   Date: 02/14/07 Time: 10:57:13 CPU Time: 0 0: 2:15.46 ( 135.46 sec) Binary
2515   Time Step No. = 560 Elapsed Time = 1.870527E+05 days
2516   Date: 02/14/07 Time: 10:57:20 CPU Time: 0 0: 2:22.91 ( 142.91 sec) Binary
2518   Time Step No. = 580 Elapsed Time = 1.979271E+05 days
2519   Date: 02/14/07 Time: 10:57:29 CPU Time: 0 0: 2:31.56 ( 151.56 sec) Binary
2521   Time Step No. = 600 Elapsed Time = 2.023248E+05 days
2522   Date: 02/14/07 Time: 10:57:36 CPU Time: 0 0: 2:39.08 ( 159.08 sec) Binary
2524   Time Step No. = 620 Elapsed Time = 2.067971E+05 days
2525   Date: 02/14/07 Time: 10:57:44 CPU Time: 0 0: 2:46.19 ( 166.19 sec) Binary
2527   Time Step No. = 640 Elapsed Time = 2.087652E+05 days
2528   Date: 02/14/07 Time: 10:57:49 CPU Time: 0 0: 2:51.91 ( 171.91 sec) Binary
2530   Time Step No. = 660 Elapsed Time = 2.118872E+05 days
2531   Date: 02/14/07 Time: 10:57:55 CPU Time: 0 0: 2:57.86 ( 177.86 sec) Binary
2533   Time Step No. = 680 Elapsed Time = 2.157256E+05 days
2534   Date: 02/14/07 Time: 10:58:01 CPU Time: 0 0: 3: 3.89 ( 183.89 sec) Binary
2536   Time Step No. = 700 Elapsed Time = 2.321898E+05 days
2537   Date: 02/14/07 Time: 10:58:11 CPU Time: 0 0: 3:13.75 ( 193.75 sec) Binary
2539   Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540   Date: 02/14/07 Time: 10:58:17 CPU Time: 0 0: 3:19.62 ( 199.62 sec) Binary
2542   Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543   Date: 02/14/07 Time: 10:58:26 CPU Time: 0 0: 3:28.28 ( 208.28 sec) Binary
2545   Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546   Date: 02/14/07 Time: 10:58:33 CPU Time: 0 0: 3:35.56 ( 215.56 sec) Binary
2548   Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549   Date: 02/14/07 Time: 10:58:36 CPU Time: 0 0: 3:38.82 ( 218.82 sec) Binary
2551   Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552   Date: 02/14/07 Time: 10:58:41 CPU Time: 0 0: 3:43.25 ( 223.25 sec) Binary
2554   Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555   Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0: 3:44.81 ( 224.81 sec) Binary
2557   Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558   Date: 02/14/07 Time: 10:58:44 CPU Time: 0 0: 3:46.73 ( 226.73 sec) Binary
2560   Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561   Date: 02/14/07 Time: 10:58:49 CPU Time: 0 0: 3:51.51 ( 231.51 sec) Binary
2563   Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564   Date: 02/14/07 Time: 10:58:56 CPU Time: 0 0: 3:57.86 ( 237.86 sec) Binary
2566   Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567   Date: 02/14/07 Time: 10:59:03 CPU Time: 0 0: 4: 5.09 ( 245.09 sec) Binary
2569   Time Step No. = 920 Elapsed Time = 4.157257E+05 days
```

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2570    Date: 02/14/07 Time: 10:59:09 CPU Time: 0 0: 4:11.20 ( 251.20 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573    Date: 02/14/07 Time: 10:59:17 CPU Time: 0 0: 4:18.78 ( 258.78 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576    Date: 02/14/07 Time: 10:59:23 CPU Time: 0 0: 4:24.73 ( 264.73 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579    Date: 02/14/07 Time: 10:59:29 CPU Time: 0 0: 4:31.49 ( 271.49 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582    Date: 02/14/07 Time: 10:59:34 CPU Time: 0 0: 4:36.51 ( 276.51 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585    Date: 02/14/07 Time: 10:59:40 CPU Time: 0 0: 4:41.95 ( 281.95 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588    Date: 02/14/07 Time: 10:59:45 CPU Time: 0 0: 4:47.25 ( 287.25 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591    Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:53.31 ( 293.31 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594    Date: 02/14/07 Time: 10:59:58 CPU Time: 0 0: 4:59.95 ( 299.95 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597    Date: 02/14/07 Time: 11:00:05 CPU Time: 0 0: 5: 6.74 ( 306.74 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600    Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 5:12.70 ( 312.70 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603    Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 5:18.10 ( 318.10 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606    Date: 02/14/07 Time: 11:00:20 CPU Time: 0 0: 5:22.32 ( 322.32 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609    Date: 02/14/07 Time: 11:00:29 CPU Time: 0 0: 5:30.99 ( 330.99 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612    Date: 02/14/07 Time: 11:00:34 CPU Time: 0 0: 5:36.03 ( 336.03 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615    Date: 02/14/07 Time: 11:00:38 CPU Time: 0 0: 5:40.01 ( 340.01 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618    Date: 02/14/07 Time: 11:00:42 CPU Time: 0 0: 5:43.75 ( 343.75 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621    Date: 02/14/07 Time: 11:00:47 CPU Time: 0 0: 5:48.61 ( 348.61 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624    Date: 02/14/07 Time: 11:00:57 CPU Time: 0 0: 5:59.37 ( 359.37 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627    Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 6: 4.05 ( 364.05 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630    Date: 02/14/07 Time: 11:01:11 CPU Time: 0 0: 6:12.93 ( 372.93 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633    Date: 02/14/07 Time: 11:01:15 CPU Time: 0 0: 6:16.72 ( 376.72 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636    Date: 02/14/07 Time: 11:01:22 CPU Time: 0 0: 6:24.03 ( 384.03 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639    Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 6:32.06 ( 392.06 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642    Date: 02/14/07 Time: 11:01:37 CPU Time: 0 0: 6:38.93 ( 398.93 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645    Date: 02/14/07 Time: 11:01:45 CPU Time: 0 0: 6:47.35 ( 407.35 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648    Date: 02/14/07 Time: 11:01:51 CPU Time: 0 0: 6:53.20 ( 413.20 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
2651    Date: 02/14/07 Time: 11:01:57 CPU Time: 0 0: 6:58.88 ( 418.88 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
2654    Date: 02/14/07 Time: 11:02:06 CPU Time: 0 0: 7: 7.63 ( 427.63 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
2657    Date: 02/14/07 Time: 11:02:13 CPU Time: 0 0: 7:14.92 ( 434.92 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
2660    Date: 02/14/07 Time: 11:02:18 CPU Time: 0 0: 7:20.18 ( 440.18 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
2663    Date: 02/14/07 Time: 11:02:26 CPU Time: 0 0: 7:28.07 ( 448.07 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
2666    Date: 02/14/07 Time: 11:02:34 CPU Time: 0 0: 7:35.55 ( 455.55 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
2669    Date: 02/14/07 Time: 11:02:41 CPU Time: 0 0: 7:42.74 ( 462.74 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
2672    Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:50.17 ( 470.17 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
2675    Date: 02/14/07 Time: 11:02:56 CPU Time: 0 0: 7:58.28 ( 478.28 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
2678    Date: 02/14/07 Time: 11:03:04 CPU Time: 0 0: 8: 5.98 ( 485.98 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
2681    Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 8:14.14 ( 494.14 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
```

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 2684     Date: 02/14/07 Time: 11:03:19 CPU Time: 0 0: 8:20.34 ( 500.34 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
 2687     Date: 02/14/07 Time: 11:03:24 CPU Time: 0 0: 8:25.51 ( 505.51 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
 2690     Date: 02/14/07 Time: 11:03:31 CPU Time: 0 0: 8:33.26 ( 513.26 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
 2693     Date: 02/14/07 Time: 11:03:39 CPU Time: 0 0: 8:40.00 ( 520.00 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
 2696     Date: 02/14/07 Time: 11:03:42 CPU Time: 0 0: 8:43.79 ( 523.79 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
 2699     Date: 02/14/07 Time: 11:03:49 CPU Time: 0 0: 8:50.62 ( 530.62 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
 2702     Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 8:58.91 ( 538.91 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
 2705     Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0: 9: 1.78 ( 541.78 sec) Binary
 2708     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 2450     Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) ASCII
 2452     Time Step No. = 143 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:04:23 CPU Time: 0 0: 0:26.93 ( 26.93 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 1.888386E-01 days
 2456     Date: 02/14/07 Time: 10:04:28 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 1.049209E+01 days
 2459     Date: 02/14/07 Time: 10:04:32 CPU Time: 0 0: 0:36.02 ( 36.02 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 7.381917E+01 days
 2462     Date: 02/14/07 Time: 10:04:37 CPU Time: 0 0: 0:40.41 ( 40.41 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 1.303821E+03 days
 2465     Date: 02/14/07 Time: 10:04:42 CPU Time: 0 0: 0:46.07 ( 46.07 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 1.029855E+04 days
 2468     Date: 02/14/07 Time: 10:04:49 CPU Time: 0 0: 0:52.32 ( 52.32 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 1.453486E+04 days
 2471     Date: 02/14/07 Time: 10:04:53 CPU Time: 0 0: 0:56.71 ( 56.71 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.897038E+04 days
 2474     Date: 02/14/07 Time: 10:04:58 CPU Time: 0 0: 1: 1.94 ( 61.94 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 3.655441E+04 days
 2477     Date: 02/14/07 Time: 10:05:07 CPU Time: 0 0: 1:10.21 ( 70.21 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 3.665178E+04 days
 2480     Date: 02/14/07 Time: 10:05:11 CPU Time: 0 0: 1:14.75 ( 74.75 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.666487E+04 days
 2483     Date: 02/14/07 Time: 10:05:13 CPU Time: 0 0: 1:16.82 ( 76.82 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.745088E+04 days
 2486     Date: 02/14/07 Time: 10:05:17 CPU Time: 0 0: 1:20.62 ( 80.62 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 6.127717E+04 days
 2489     Date: 02/14/07 Time: 10:05:24 CPU Time: 0 0: 1:27.44 ( 87.44 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 6.603191E+04 days
 2492     Date: 02/14/07 Time: 10:05:30 CPU Time: 0 0: 1:33.46 ( 93.46 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 7.703200E+04 days
 2495     Date: 02/14/07 Time: 10:05:35 CPU Time: 0 0: 1:38.69 ( 98.69 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 1.085280E+05 days
 2498     Date: 02/14/07 Time: 10:05:47 CPU Time: 0 0: 1:50.38 ( 110.38 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 1.090970E+05 days
 2501     Date: 02/14/07 Time: 10:05:55 CPU Time: 0 0: 1:58.25 ( 118.25 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 1.344497E+05 days
 2504     Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 2: 9.56 ( 129.56 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.371412E+05 days
 2507     Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 2:14.04 ( 134.04 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 1.661861E+05 days
 2510     Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 2:24.25 ( 144.25 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 1.808157E+05 days
 2513     Date: 02/14/07 Time: 10:06:29 CPU Time: 0 0: 2:32.79 ( 152.79 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 1.870527E+05 days
 2516     Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 2:41.42 ( 161.42 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 1.979271E+05 days
 2519     Date: 02/14/07 Time: 10:06:48 CPU Time: 0 0: 2:51.58 ( 171.58 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 2.023248E+05 days
 2522     Date: 02/14/07 Time: 10:06:57 CPU Time: 0 0: 3: 0.53 ( 180.53 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 2.067971E+05 days
 2525     Date: 02/14/07 Time: 10:07:06 CPU Time: 0 0: 3: 9.00 ( 189.00 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 2.087652E+05 days
 2528     Date: 02/14/07 Time: 10:07:13 CPU Time: 0 0: 3:15.78 ( 195.78 sec) Binary
 2530     Time Step No. = 660 Elapsed Time = 2.118872E+05 days
 2531     Date: 02/14/07 Time: 10:07:20 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
 2533     Time Step No. = 680 Elapsed Time = 2.157256E+05 days
 2534     Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 3:29.88 ( 209.88 sec) Binary
 2536     Time Step No. = 700 Elapsed Time = 2.321898E+05 days
```

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2537	Date: 02/14/07 Time: 10:07:39 CPU Time: 0 0: 3:41.79 ( 221.79 sec) Binary
2539	Time Step No. = 720 Elapsed Time = 2.494542E+05 days
2540	Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 3:48.88 ( 228.88 sec) Binary
2542	Time Step No. = 740 Elapsed Time = 3.250039E+05 days
2543	Date: 02/14/07 Time: 10:07:57 CPU Time: 0 0: 3:59.31 ( 239.31 sec) Binary
2545	Time Step No. = 760 Elapsed Time = 3.652439E+05 days
2546	Date: 02/14/07 Time: 10:08:06 CPU Time: 0 0: 4: 8.15 ( 248.15 sec) Binary
2548	Time Step No. = 780 Elapsed Time = 3.653114E+05 days
2549	Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 4:12.13 ( 252.13 sec) Binary
2551	Time Step No. = 800 Elapsed Time = 3.659945E+05 days
2552	Date: 02/14/07 Time: 10:08:15 CPU Time: 0 0: 4:17.51 ( 257.51 sec) Binary
2554	Time Step No. = 820 Elapsed Time = 3.665915E+05 days
2555	Date: 02/14/07 Time: 10:08:17 CPU Time: 0 0: 4:19.43 ( 259.43 sec) Binary
2557	Time Step No. = 840 Elapsed Time = 3.667438E+05 days
2558	Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 4:21.79 ( 261.79 sec) Binary
2560	Time Step No. = 860 Elapsed Time = 3.702620E+05 days
2561	Date: 02/14/07 Time: 10:08:26 CPU Time: 0 0: 4:27.60 ( 267.60 sec) Binary
2563	Time Step No. = 880 Elapsed Time = 4.022279E+05 days
2564	Date: 02/14/07 Time: 10:08:33 CPU Time: 0 0: 4:35.32 ( 275.32 sec) Binary
2566	Time Step No. = 900 Elapsed Time = 4.058413E+05 days
2567	Date: 02/14/07 Time: 10:08:42 CPU Time: 0 0: 4:44.10 ( 284.10 sec) Binary
2569	Time Step No. = 920 Elapsed Time = 4.157257E+05 days
2570	Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 4:51.54 ( 291.54 sec) Binary
2572	Time Step No. = 940 Elapsed Time = 4.680020E+05 days
2573	Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 5: 0.75 ( 300.75 sec) Binary
2575	Time Step No. = 960 Elapsed Time = 4.960207E+05 days
2576	Date: 02/14/07 Time: 10:09:06 CPU Time: 0 0: 5: 7.97 ( 307.97 sec) Binary
2578	Time Step No. = 980 Elapsed Time = 5.004681E+05 days
2579	Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 5:16.19 ( 316.19 sec) Binary
2581	Time Step No. = 1000 Elapsed Time = 5.185227E+05 days
2582	Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 5:22.28 ( 322.28 sec) Binary
2584	Time Step No. = 1020 Elapsed Time = 5.256549E+05 days
2585	Date: 02/14/07 Time: 10:09:27 CPU Time: 0 0: 5:28.87 ( 328.87 sec) Binary
2587	Time Step No. = 1040 Elapsed Time = 5.710331E+05 days
2588	Date: 02/14/07 Time: 10:09:33 CPU Time: 0 0: 5:35.32 ( 335.32 sec) Binary
2590	Time Step No. = 1060 Elapsed Time = 5.995540E+05 days
2591	Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 5:42.67 ( 342.67 sec) Binary
2593	Time Step No. = 1080 Elapsed Time = 6.468026E+05 days
2594	Date: 02/14/07 Time: 10:09:49 CPU Time: 0 0: 5:50.75 ( 350.75 sec) Binary
2596	Time Step No. = 1100 Elapsed Time = 7.581412E+05 days
2597	Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 5:58.97 ( 358.97 sec) Binary
2599	Time Step No. = 1120 Elapsed Time = 7.595371E+05 days
2600	Date: 02/14/07 Time: 10:10:04 CPU Time: 0 0: 6: 6.17 ( 366.17 sec) Binary
2602	Time Step No. = 1140 Elapsed Time = 7.605376E+05 days
2603	Date: 02/14/07 Time: 10:10:11 CPU Time: 0 0: 6:12.69 ( 372.69 sec) Binary
2605	Time Step No. = 1160 Elapsed Time = 8.320140E+05 days
2606	Date: 02/14/07 Time: 10:10:16 CPU Time: 0 0: 6:17.80 ( 377.80 sec) Binary
2608	Time Step No. = 1180 Elapsed Time = 8.885727E+05 days
2609	Date: 02/14/07 Time: 10:10:27 CPU Time: 0 0: 6:28.25 ( 388.25 sec) Binary
2611	Time Step No. = 1200 Elapsed Time = 8.890150E+05 days
2612	Date: 02/14/07 Time: 10:10:33 CPU Time: 0 0: 6:34.36 ( 394.36 sec) Binary
2614	Time Step No. = 1220 Elapsed Time = 8.899916E+05 days
2615	Date: 02/14/07 Time: 10:10:38 CPU Time: 0 0: 6:39.20 ( 399.20 sec) Binary
2617	Time Step No. = 1240 Elapsed Time = 8.947272E+05 days
2618	Date: 02/14/07 Time: 10:10:42 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
2620	Time Step No. = 1260 Elapsed Time = 9.437904E+05 days
2621	Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 6:49.61 ( 409.61 sec) Binary
2623	Time Step No. = 1280 Elapsed Time = 1.213758E+06 days
2624	Date: 02/14/07 Time: 10:11:01 CPU Time: 0 0: 7: 2.61 ( 422.61 sec) Binary
2626	Time Step No. = 1300 Elapsed Time = 1.226074E+06 days
2627	Date: 02/14/07 Time: 10:11:07 CPU Time: 0 0: 7: 8.26 ( 428.26 sec) Binary
2629	Time Step No. = 1320 Elapsed Time = 1.335351E+06 days
2630	Date: 02/14/07 Time: 10:11:18 CPU Time: 0 0: 7:19.01 ( 439.01 sec) Binary
2632	Time Step No. = 1340 Elapsed Time = 1.355313E+06 days
2633	Date: 02/14/07 Time: 10:11:22 CPU Time: 0 0: 7:23.61 ( 443.61 sec) Binary
2635	Time Step No. = 1360 Elapsed Time = 1.691414E+06 days
2636	Date: 02/14/07 Time: 10:11:31 CPU Time: 0 0: 7:32.45 ( 452.45 sec) Binary
2638	Time Step No. = 1380 Elapsed Time = 1.935904E+06 days
2639	Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 7:42.07 ( 462.07 sec) Binary
2641	Time Step No. = 1400 Elapsed Time = 2.156829E+06 days
2642	Date: 02/14/07 Time: 10:11:49 CPU Time: 0 0: 7:50.15 ( 470.15 sec) Binary
2644	Time Step No. = 1420 Elapsed Time = 2.385035E+06 days
2645	Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 7:59.43 ( 479.43 sec) Binary
2647	Time Step No. = 1440 Elapsed Time = 2.388859E+06 days
2648	Date: 02/14/07 Time: 10:12:05 CPU Time: 0 0: 8: 5.88 ( 485.88 sec) Binary
2650	Time Step No. = 1460 Elapsed Time = 2.446663E+06 days
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 2651     Date: 02/14/07 Time: 10:12:11 CPU Time: 0 0: 8:12.12 ( 492.12 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 2.487155E+06 days
 2654     Date: 02/14/07 Time: 10:12:21 CPU Time: 0 0: 8:21.81 ( 501.81 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 2.546664E+06 days
 2657     Date: 02/14/07 Time: 10:12:29 CPU Time: 0 0: 8:29.85 ( 509.85 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 2.746584E+06 days
 2660     Date: 02/14/07 Time: 10:12:35 CPU Time: 0 0: 8:35.65 ( 515.65 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 2.785922E+06 days
 2663     Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 8:44.34 ( 524.34 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 2.839066E+06 days
 2666     Date: 02/14/07 Time: 10:12:52 CPU Time: 0 0: 8:52.59 ( 532.59 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 2.853716E+06 days
 2669     Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 9: 0.53 ( 540.53 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 2.906230E+06 days
 2672     Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 9: 8.72 ( 548.72 sec) Binary
 2674     Time Step No. = 1620 Elapsed Time = 3.005066E+06 days
 2675     Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 9:18.08 ( 558.08 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 3.035896E+06 days
 2678     Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 9:27.41 ( 567.41 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 3.044398E+06 days
 2681     Date: 02/14/07 Time: 10:13:37 CPU Time: 0 0: 9:37.30 ( 577.30 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 3.057017E+06 days
 2684     Date: 02/14/07 Time: 10:13:44 CPU Time: 0 0: 9:44.77 ( 584.77 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 3.100833E+06 days
 2687     Date: 02/14/07 Time: 10:13:50 CPU Time: 0 0: 9:51.05 ( 591.05 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 3.124165E+06 days
 2690     Date: 02/14/07 Time: 10:14:00 CPU Time: 0 0:10: 0.43 ( 600.43 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 3.186781E+06 days
 2693     Date: 02/14/07 Time: 10:14:08 CPU Time: 0 0:10: 8.20 ( 608.20 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 3.196106E+06 days
 2696     Date: 02/14/07 Time: 10:14:12 CPU Time: 0 0:10:12.70 ( 612.70 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 3.298901E+06 days
 2699     Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0:10:21.00 ( 621.00 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 3.409211E+06 days
 2702     Date: 02/14/07 Time: 10:14:31 CPU Time: 0 0:10:31.05 ( 631.05 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 3.458423E+06 days
 2705     Date: 02/14/07 Time: 10:14:34 CPU Time: 0 0:10:34.52 ( 634.52 sec) Binary
 2708     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
 2724     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2725     CPU Time (total for run) = 545.20 sec = 0.15144 hr
 2726    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 2724     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2725     CPU Time (total for run) = 638.67 sec = 0.17741 hr
 2726    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1
 3402     Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 9: 5.21 ( 545.21 sec) ASCII
 3404     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3405     Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 9: 5.21 ( 545.21 sec) Binary
 3410     ****************************************************************************
 3411     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3412     * Completed: 02/14/07 at 11:04:04 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3413     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
 3402     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.68 ( 638.68 sec) ASCII
 3404     Time Step No. = 1833 Elapsed Time = 3.652431E+06 days
 3405     Date: 02/14/07 Time: 10:14:38 CPU Time: 0 0:10:38.69 ( 638.69 sec) Binary
 3410     ****************************************************************************
 3411     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3412     * Completed: 02/14/07 at 10:14:38 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3413     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 188

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES45_TEST7_V014.OUT;1-
```

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PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V014]BF2_QB0600_ES47_TEST7_V014.OUT;1
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BF2_QB0600_ES45_TEST7_V015_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
    3     ** Begun on: 02/14/07 at 10:55:26 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
    3     ** Begun on: 02/14/07 at 10:05:21 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_TEST7_V015.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.ROT;1
   87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.ROT;1
   87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 32.58 sec = 0.00905 hr
 1774     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
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1772    CPU Time (this time step) = 0.12 sec = 0.00003 hr
1773    CPU Time (total for run) = 36.30 sec = 0.01008 hr
1774    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
2450    Date: 02/14/07 Time: 10:55:59 CPU Time: 0 0: 0:32.59 ( 32.59 sec) ASCII
2452    Time Step No. = 210 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 10:55:59 CPU Time: 0 0: 0:32.59 ( 32.59 sec) Binary
2455    Time Step No. = 220 Elapsed Time = 2.536995E-06 days
2456    Date: 02/14/07 Time: 10:56:01 CPU Time: 0 0: 0:35.13 ( 35.13 sec) Binary
2458    Time Step No. = 240 Elapsed Time = 2.462139E-04 days
2459    Date: 02/14/07 Time: 10:56:04 CPU Time: 0 0: 0:37.46 ( 37.46 sec) Binary
2461    Time Step No. = 260 Elapsed Time = 2.138181E-02 days
2462    Date: 02/14/07 Time: 10:56:06 CPU Time: 0 0: 0:40.03 ( 40.03 sec) Binary
2464    Time Step No. = 280 Elapsed Time = 8.282803E-01 days
2465    Date: 02/14/07 Time: 10:56:10 CPU Time: 0 0: 0:44.31 ( 44.31 sec) Binary
2467    Time Step No. = 300 Elapsed Time = 9.304805E+00 days
2468    Date: 02/14/07 Time: 10:56:15 CPU Time: 0 0: 0:48.47 ( 48.47 sec) Binary
2470    Time Step No. = 320 Elapsed Time = 3.446185E+01 days
2471    Date: 02/14/07 Time: 10:56:19 CPU Time: 0 0: 0:52.69 ( 52.69 sec) Binary
2473    Time Step No. = 340 Elapsed Time = 3.301301E+02 days
2474    Date: 02/14/07 Time: 10:56:23 CPU Time: 0 0: 0:56.67 ( 56.67 sec) Binary
2476    Time Step No. = 360 Elapsed Time = 3.883799E+03 days
2477    Date: 02/14/07 Time: 10:56:28 CPU Time: 0 0: 1: 2.15 ( 62.15 sec) Binary
2479    Time Step No. = 380 Elapsed Time = 9.380975E+03 days
2480    Date: 02/14/07 Time: 10:56:34 CPU Time: 0 0: 1: 7.17 ( 67.17 sec) Binary
2482    Time Step No. = 400 Elapsed Time = 1.987397E+04 days
2483    Date: 02/14/07 Time: 10:56:38 CPU Time: 0 0: 1:11.27 ( 71.27 sec) Binary
2485    Time Step No. = 420 Elapsed Time = 2.958099E+04 days
2486    Date: 02/14/07 Time: 10:56:45 CPU Time: 0 0: 1:18.41 ( 78.41 sec) Binary
2488    Time Step No. = 440 Elapsed Time = 3.655662E+04 days
2489    Date: 02/14/07 Time: 10:56:50 CPU Time: 0 0: 1:24.10 ( 84.10 sec) Binary
2491    Time Step No. = 460 Elapsed Time = 3.667440E+04 days
2492    Date: 02/14/07 Time: 10:56:53 CPU Time: 0 0: 1:26.44 ( 86.44 sec) Binary
2494    Time Step No. = 480 Elapsed Time = 3.673678E+04 days
2495    Date: 02/14/07 Time: 10:56:55 CPU Time: 0 0: 1:28.76 ( 88.76 sec) Binary
2497    Time Step No. = 500 Elapsed Time = 3.915452E+04 days
2498    Date: 02/14/07 Time: 10:56:59 CPU Time: 0 0: 1:33.00 ( 93.00 sec) Binary
2500    Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501    Date: 02/14/07 Time: 10:57:06 CPU Time: 0 0: 1:39.56 ( 99.56 sec) Binary
2503    Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504    Date: 02/14/07 Time: 10:57:15 CPU Time: 0 0: 1:48.89 ( 108.89 sec) Binary
2506    Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507    Date: 02/14/07 Time: 10:57:24 CPU Time: 0 0: 1:57.56 ( 117.56 sec) Binary
2509    Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510    Date: 02/14/07 Time: 10:57:28 CPU Time: 0 0: 2: 1.68 ( 121.68 sec) Binary
2512    Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513    Date: 02/14/07 Time: 10:57:34 CPU Time: 0 0: 2: 7.75 ( 127.75 sec) Binary
2515    Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516    Date: 02/14/07 Time: 10:57:42 CPU Time: 0 0: 2:15.38 ( 135.38 sec) Binary
2518    Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519    Date: 02/14/07 Time: 10:57:50 CPU Time: 0 0: 2:23.70 ( 143.70 sec) Binary
2521    Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522    Date: 02/14/07 Time: 10:57:59 CPU Time: 0 0: 2:32.72 ( 152.72 sec) Binary
2524    Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525    Date: 02/14/07 Time: 10:58:02 CPU Time: 0 0: 2:35.42 ( 155.42 sec) Binary
2527    Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528    Date: 02/14/07 Time: 10:58:08 CPU Time: 0 0: 2:40.94 ( 160.94 sec) Binary
2530    Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531    Date: 02/14/07 Time: 10:58:14 CPU Time: 0 0: 2:47.74 ( 167.74 sec) Binary
2533    Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534    Date: 02/14/07 Time: 10:58:18 CPU Time: 0 0: 2:51.72 ( 171.72 sec) Binary
2536    Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537    Date: 02/14/07 Time: 10:58:22 CPU Time: 0 0: 2:55.60 ( 175.60 sec) Binary
2539    Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540    Date: 02/14/07 Time: 10:58:27 CPU Time: 0 0: 3: 0.18 ( 180.18 sec) Binary
2542    Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543    Date: 02/14/07 Time: 10:58:29 CPU Time: 0 0: 3: 1.78 ( 181.78 sec) Binary
2545    Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546    Date: 02/14/07 Time: 10:58:30 CPU Time: 0 0: 3: 3.25 ( 183.25 sec) Binary
2548    Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549    Date: 02/14/07 Time: 10:58:34 CPU Time: 0 0: 3: 7.13 ( 187.13 sec) Binary
2551    Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552    Date: 02/14/07 Time: 10:58:38 CPU Time: 0 0: 3:11.42 ( 191.42 sec) Binary
2554    Time Step No. = 880 Elapsed Time = 3.946995E+05 days
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2555    Date: 02/14/07 Time: 10:58:47 CPU Time: 0 0: 3:20.16 ( 200.16 sec) Binary
2557    Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558    Date: 02/14/07 Time: 10:58:52 CPU Time: 0 0: 3:25.26 ( 205.26 sec) Binary
2560    Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561    Date: 02/14/07 Time: 10:58:59 CPU Time: 0 0: 3:31.96 ( 211.96 sec) Binary
2563    Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564    Date: 02/14/07 Time: 10:59:04 CPU Time: 0 0: 3:36.87 ( 216.87 sec) Binary
2566    Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567    Date: 02/14/07 Time: 10:59:12 CPU Time: 0 0: 3:44.66 ( 224.66 sec) Binary
2569    Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570    Date: 02/14/07 Time: 10:59:15 CPU Time: 0 0: 3:48.50 ( 228.50 sec) Binary
2572    Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573    Date: 02/14/07 Time: 10:59:21 CPU Time: 0 0: 3:53.67 ( 233.67 sec) Binary
2575    Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576    Date: 02/14/07 Time: 10:59:24 CPU Time: 0 0: 3:56.80 ( 236.80 sec) Binary
2578    Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579    Date: 02/14/07 Time: 10:59:31 CPU Time: 0 0: 4: 3.91 ( 243.91 sec) Binary
2581    Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582    Date: 02/14/07 Time: 10:59:37 CPU Time: 0 0: 4: 9.69 ( 249.69 sec) Binary
2584    Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585    Date: 02/14/07 Time: 10:59:40 CPU Time: 0 0: 4:13.59 ( 253.59 sec) Binary
2587    Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588    Date: 02/14/07 Time: 10:59:46 CPU Time: 0 0: 4:19.44 ( 259.44 sec) Binary
2590    Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591    Date: 02/14/07 Time: 10:59:51 CPU Time: 0 0: 4:23.92 ( 263.92 sec) Binary
2593    Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594    Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 4:28.89 ( 268.89 sec) Binary
2596    Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597    Date: 02/14/07 Time: 11:00:00 CPU Time: 0 0: 4:33.12 ( 273.12 sec) Binary
2599    Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600    Date: 02/14/07 Time: 11:00:04 CPU Time: 0 0: 4:37.25 ( 277.25 sec) Binary
2602    Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603    Date: 02/14/07 Time: 11:00:11 CPU Time: 0 0: 4:44.32 ( 284.32 sec) Binary
2605    Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606    Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 4:49.05 ( 289.05 sec) Binary
2608    Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609    Date: 02/14/07 Time: 11:00:20 CPU Time: 0 0: 4:52.72 ( 292.72 sec) Binary
2611    Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
2612    Date: 02/14/07 Time: 11:00:31 CPU Time: 0 0: 5: 3.66 ( 303.66 sec) Binary
2614    Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615    Date: 02/14/07 Time: 11:00:35 CPU Time: 0 0: 5: 7.67 ( 307.67 sec) Binary
2617    Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618    Date: 02/14/07 Time: 11:00:39 CPU Time: 0 0: 5:11.67 ( 311.67 sec) Binary
2620    Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621    Date: 02/14/07 Time: 11:00:46 CPU Time: 0 0: 5:18.89 ( 318.89 sec) Binary
2623    Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624    Date: 02/14/07 Time: 11:00:53 CPU Time: 0 0: 5:26.09 ( 326.09 sec) Binary
2626    Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627    Date: 02/14/07 Time: 11:00:58 CPU Time: 0 0: 5:30.82 ( 330.82 sec) Binary
2629    Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630    Date: 02/14/07 Time: 11:01:02 CPU Time: 0 0: 5:34.48 ( 334.48 sec) Binary
2632    Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633    Date: 02/14/07 Time: 11:01:08 CPU Time: 0 0: 5:40.93 ( 340.93 sec) Binary
2635    Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636    Date: 02/14/07 Time: 11:01:17 CPU Time: 0 0: 5:50.09 ( 350.09 sec) Binary
2638    Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639    Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0: 5:54.26 ( 354.26 sec) Binary
2641    Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642    Date: 02/14/07 Time: 11:01:30 CPU Time: 0 0: 6: 2.50 ( 362.50 sec) Binary
2644    Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645    Date: 02/14/07 Time: 11:01:36 CPU Time: 0 0: 6: 8.73 ( 368.73 sec) Binary
2647    Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648    Date: 02/14/07 Time: 11:01:43 CPU Time: 0 0: 6:14.91 ( 374.91 sec) Binary
2650    Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651    Date: 02/14/07 Time: 11:01:50 CPU Time: 0 0: 6:22.29 ( 382.29 sec) Binary
2653    Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654    Date: 02/14/07 Time: 11:02:00 CPU Time: 0 0: 6:32.81 ( 392.81 sec) Binary
2656    Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657    Date: 02/14/07 Time: 11:02:05 CPU Time: 0 0: 6:36.87 ( 396.87 sec) Binary
2659    Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660    Date: 02/14/07 Time: 11:02:13 CPU Time: 0 0: 6:45.56 ( 405.56 sec) Binary
2662    Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663    Date: 02/14/07 Time: 11:02:17 CPU Time: 0 0: 6:48.98 ( 408.98 sec) Binary
2665    Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666    Date: 02/14/07 Time: 11:02:24 CPU Time: 0 0: 6:56.42 ( 416.42 sec) Binary
2668    Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
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 2669     Date: 02/14/07 Time: 11:02:28 CPU Time: 0 0: 6:59.91 ( 419.91 sec) Binary
 2671     Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
 2672     Date: 02/14/07 Time: 11:02:35 CPU Time: 0 0: 7: 7.59 ( 427.59 sec) Binary
 2674     Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
 2675     Date: 02/14/07 Time: 11:02:42 CPU Time: 0 0: 7:14.06 ( 434.06 sec) Binary
 2677     Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
 2678     Date: 02/14/07 Time: 11:02:48 CPU Time: 0 0: 7:20.11 ( 440.11 sec) Binary
 2680     Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
 2681     Date: 02/14/07 Time: 11:02:56 CPU Time: 0 0: 7:28.01 ( 448.01 sec) Binary
 2683     Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
 2684     Date: 02/14/07 Time: 11:03:00 CPU Time: 0 0: 7:32.64 ( 452.64 sec) Binary
 2686     Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
 2687     Date: 02/14/07 Time: 11:03:06 CPU Time: 0 0: 7:38.35 ( 458.35 sec) Binary
 2689     Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
 2690     Date: 02/14/07 Time: 11:03:10 CPU Time: 0 0: 7:42.29 ( 462.29 sec) Binary
 2692     Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
 2693     Date: 02/14/07 Time: 11:03:14 CPU Time: 0 0: 7:46.06 ( 466.06 sec) Binary
 2695     Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
 2696     Date: 02/14/07 Time: 11:03:17 CPU Time: 0 0: 7:49.61 ( 469.61 sec) Binary
 2698     Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
 2699     Date: 02/14/07 Time: 11:03:25 CPU Time: 0 0: 7:57.37 ( 477.37 sec) Binary
 2701     Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
 2702     Date: 02/14/07 Time: 11:03:28 CPU Time: 0 0: 8: 0.12 ( 480.12 sec) Binary
 2704     Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
 2705     Date: 02/14/07 Time: 11:03:32 CPU Time: 0 0: 8: 4.17 ( 484.17 sec) Binary
 2707     Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
 2708     Date: 02/14/07 Time: 11:03:38 CPU Time: 0 0: 8:10.51 ( 490.51 sec) Binary
 2710     Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
 2711     Date: 02/14/07 Time: 11:03:45 CPU Time: 0 0: 8:17.07 ( 497.07 sec) Binary
 2713     Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
 2714     Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 8:22.72 ( 502.72 sec) Binary
 2716     Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
 2717     Date: 02/14/07 Time: 11:03:56 CPU Time: 0 0: 8:28.44 ( 508.44 sec) Binary
 2719     Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
 2720     Date: 02/14/07 Time: 11:04:00 CPU Time: 0 0: 8:32.04 ( 512.04 sec) Binary
 2722     Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
 2723     Date: 02/14/07 Time: 11:04:04 CPU Time: 0 0: 8:35.52 ( 515.52 sec) Binary
 2725     Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
 2726     Date: 02/14/07 Time: 11:04:07 CPU Time: 0 0: 8:39.03 ( 519.03 sec) Binary
 2728     Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
 2729     Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:42.52 ( 522.52 sec) Binary
 2732     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 2450     Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) ASCII
 2452     Time Step No. = 210 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:05:57 CPU Time: 0 0: 0:36.32 ( 36.32 sec) Binary
 2455     Time Step No. = 220 Elapsed Time = 2.536995E-06 days
 2456     Date: 02/14/07 Time: 10:06:00 CPU Time: 0 0: 0:39.15 ( 39.15 sec) Binary
 2458     Time Step No. = 240 Elapsed Time = 2.462139E-04 days
 2459     Date: 02/14/07 Time: 10:06:03 CPU Time: 0 0: 0:41.76 ( 41.76 sec) Binary
 2461     Time Step No. = 260 Elapsed Time = 2.138181E-02 days
 2462     Date: 02/14/07 Time: 10:06:06 CPU Time: 0 0: 0:44.68 ( 44.68 sec) Binary
 2464     Time Step No. = 280 Elapsed Time = 8.282803E-01 days
 2465     Date: 02/14/07 Time: 10:06:11 CPU Time: 0 0: 0:49.77 ( 49.77 sec) Binary
 2467     Time Step No. = 300 Elapsed Time = 9.304805E+00 days
 2468     Date: 02/14/07 Time: 10:06:16 CPU Time: 0 0: 0:54.74 ( 54.74 sec) Binary
 2470     Time Step No. = 320 Elapsed Time = 3.446185E+01 days
 2471     Date: 02/14/07 Time: 10:06:21 CPU Time: 0 0: 0:59.75 ( 59.75 sec) Binary
 2473     Time Step No. = 340 Elapsed Time = 3.301301E+02 days
 2474     Date: 02/14/07 Time: 10:06:26 CPU Time: 0 0: 1: 4.51 ( 64.51 sec) Binary
 2476     Time Step No. = 360 Elapsed Time = 3.883799E+03 days
 2477     Date: 02/14/07 Time: 10:06:32 CPU Time: 0 0: 1:11.03 ( 71.03 sec) Binary
 2479     Time Step No. = 380 Elapsed Time = 9.380975E+03 days
 2480     Date: 02/14/07 Time: 10:06:38 CPU Time: 0 0: 1:17.01 ( 77.01 sec) Binary
 2482     Time Step No. = 400 Elapsed Time = 1.987397E+04 days
 2483     Date: 02/14/07 Time: 10:06:43 CPU Time: 0 0: 1:21.87 ( 81.87 sec) Binary
 2485     Time Step No. = 420 Elapsed Time = 2.958099E+04 days
 2486     Date: 02/14/07 Time: 10:06:51 CPU Time: 0 0: 1:30.13 ( 90.13 sec) Binary
 2488     Time Step No. = 440 Elapsed Time = 3.655662E+04 days
 2489     Date: 02/14/07 Time: 10:06:58 CPU Time: 0 0: 1:36.74 ( 96.74 sec) Binary
 2491     Time Step No. = 460 Elapsed Time = 3.667440E+04 days
 2492     Date: 02/14/07 Time: 10:07:01 CPU Time: 0 0: 1:39.47 ( 99.47 sec) Binary
 2494     Time Step No. = 480 Elapsed Time = 3.673678E+04 days
 2495     Date: 02/14/07 Time: 10:07:03 CPU Time: 0 0: 1:42.19 ( 102.19 sec) Binary
 2497     Time Step No. = 500 Elapsed Time = 3.915452E+04 days
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2498  Date: 02/14/07 Time: 10:07:08 CPU Time: 0 0: 1:47.08 ( 107.08 sec) Binary
2500  Time Step No. = 520 Elapsed Time = 7.353667E+04 days
2501  Date: 02/14/07 Time: 10:07:16 CPU Time: 0 0: 1:54.69 ( 114.69 sec) Binary
2503  Time Step No. = 540 Elapsed Time = 1.617796E+05 days
2504  Date: 02/14/07 Time: 10:07:27 CPU Time: 0 0: 2: 5.58 ( 125.58 sec) Binary
2506  Time Step No. = 560 Elapsed Time = 1.667678E+05 days
2507  Date: 02/14/07 Time: 10:07:38 CPU Time: 0 0: 2:15.94 ( 135.94 sec) Binary
2509  Time Step No. = 580 Elapsed Time = 1.677068E+05 days
2510  Date: 02/14/07 Time: 10:07:42 CPU Time: 0 0: 2:20.84 ( 140.84 sec) Binary
2512  Time Step No. = 600 Elapsed Time = 1.761057E+05 days
2513  Date: 02/14/07 Time: 10:07:50 CPU Time: 0 0: 2:28.08 ( 148.08 sec) Binary
2515  Time Step No. = 620 Elapsed Time = 2.548561E+05 days
2516  Date: 02/14/07 Time: 10:07:59 CPU Time: 0 0: 2:37.21 ( 157.21 sec) Binary
2518  Time Step No. = 640 Elapsed Time = 3.342697E+05 days
2519  Date: 02/14/07 Time: 10:08:08 CPU Time: 0 0: 2:46.85 ( 166.85 sec) Binary
2521  Time Step No. = 660 Elapsed Time = 3.395756E+05 days
2522  Date: 02/14/07 Time: 10:08:19 CPU Time: 0 0: 2:57.26 ( 177.26 sec) Binary
2524  Time Step No. = 680 Elapsed Time = 3.398686E+05 days
2525  Date: 02/14/07 Time: 10:08:22 CPU Time: 0 0: 3: 0.38 ( 180.38 sec) Binary
2527  Time Step No. = 700 Elapsed Time = 3.453184E+05 days
2528  Date: 02/14/07 Time: 10:08:29 CPU Time: 0 0: 3: 6.81 ( 186.81 sec) Binary
2530  Time Step No. = 720 Elapsed Time = 3.619564E+05 days
2531  Date: 02/14/07 Time: 10:08:37 CPU Time: 0 0: 3:14.71 ( 194.71 sec) Binary
2533  Time Step No. = 740 Elapsed Time = 3.652437E+05 days
2534  Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 3:19.35 ( 199.35 sec) Binary
2536  Time Step No. = 760 Elapsed Time = 3.652836E+05 days
2537  Date: 02/14/07 Time: 10:08:46 CPU Time: 0 0: 3:23.87 ( 203.87 sec) Binary
2539  Time Step No. = 780 Elapsed Time = 3.659700E+05 days
2540  Date: 02/14/07 Time: 10:08:51 CPU Time: 0 0: 3:29.19 ( 209.19 sec) Binary
2542  Time Step No. = 800 Elapsed Time = 3.665230E+05 days
2543  Date: 02/14/07 Time: 10:08:53 CPU Time: 0 0: 3:31.08 ( 211.08 sec) Binary
2545  Time Step No. = 820 Elapsed Time = 3.666753E+05 days
2546  Date: 02/14/07 Time: 10:08:55 CPU Time: 0 0: 3:32.81 ( 212.81 sec) Binary
2548  Time Step No. = 840 Elapsed Time = 3.798850E+05 days
2549  Date: 02/14/07 Time: 10:08:59 CPU Time: 0 0: 3:37.33 ( 217.33 sec) Binary
2551  Time Step No. = 860 Elapsed Time = 3.879056E+05 days
2552  Date: 02/14/07 Time: 10:09:04 CPU Time: 0 0: 3:42.32 ( 222.32 sec) Binary
2554  Time Step No. = 880 Elapsed Time = 3.946995E+05 days
2555  Date: 02/14/07 Time: 10:09:14 CPU Time: 0 0: 3:52.50 ( 232.50 sec) Binary
2557  Time Step No. = 900 Elapsed Time = 3.975263E+05 days
2558  Date: 02/14/07 Time: 10:09:20 CPU Time: 0 0: 3:58.42 ( 238.42 sec) Binary
2560  Time Step No. = 920 Elapsed Time = 4.345875E+05 days
2561  Date: 02/14/07 Time: 10:09:28 CPU Time: 0 0: 4: 6.20 ( 246.20 sec) Binary
2563  Time Step No. = 940 Elapsed Time = 4.372829E+05 days
2564  Date: 02/14/07 Time: 10:09:34 CPU Time: 0 0: 4:11.92 ( 251.92 sec) Binary
2566  Time Step No. = 960 Elapsed Time = 4.689932E+05 days
2567  Date: 02/14/07 Time: 10:09:43 CPU Time: 0 0: 4:20.97 ( 260.97 sec) Binary
2569  Time Step No. = 980 Elapsed Time = 4.690669E+05 days
2570  Date: 02/14/07 Time: 10:09:47 CPU Time: 0 0: 4:25.42 ( 265.42 sec) Binary
2572  Time Step No. = 1000 Elapsed Time = 4.692436E+05 days
2573  Date: 02/14/07 Time: 10:09:53 CPU Time: 0 0: 4:31.41 ( 271.41 sec) Binary
2575  Time Step No. = 1020 Elapsed Time = 4.727425E+05 days
2576  Date: 02/14/07 Time: 10:09:57 CPU Time: 0 0: 4:35.07 ( 275.07 sec) Binary
2578  Time Step No. = 1040 Elapsed Time = 4.959067E+05 days
2579  Date: 02/14/07 Time: 10:10:05 CPU Time: 0 0: 4:43.30 ( 283.30 sec) Binary
2581  Time Step No. = 1060 Elapsed Time = 4.961354E+05 days
2582  Date: 02/14/07 Time: 10:10:12 CPU Time: 0 0: 4:50.00 ( 290.00 sec) Binary
2584  Time Step No. = 1080 Elapsed Time = 4.962283E+05 days
2585  Date: 02/14/07 Time: 10:10:17 CPU Time: 0 0: 4:54.52 ( 294.52 sec) Binary
2587  Time Step No. = 1100 Elapsed Time = 4.963551E+05 days
2588  Date: 02/14/07 Time: 10:10:23 CPU Time: 0 0: 5: 1.30 ( 301.30 sec) Binary
2590  Time Step No. = 1120 Elapsed Time = 4.965395E+05 days
2591  Date: 02/14/07 Time: 10:10:29 CPU Time: 0 0: 5: 6.50 ( 306.50 sec) Binary
2593  Time Step No. = 1140 Elapsed Time = 4.967846E+05 days
2594  Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 5:12.30 ( 312.30 sec) Binary
2596  Time Step No. = 1160 Elapsed Time = 4.970089E+05 days
2597  Date: 02/14/07 Time: 10:10:39 CPU Time: 0 0: 5:17.24 ( 317.24 sec) Binary
2599  Time Step No. = 1180 Elapsed Time = 5.106798E+05 days
2600  Date: 02/14/07 Time: 10:10:44 CPU Time: 0 0: 5:22.04 ( 322.04 sec) Binary
2602  Time Step No. = 1200 Elapsed Time = 6.282308E+05 days
2603  Date: 02/14/07 Time: 10:10:52 CPU Time: 0 0: 5:30.27 ( 330.27 sec) Binary
2605  Time Step No. = 1220 Elapsed Time = 6.292016E+05 days
2606  Date: 02/14/07 Time: 10:10:58 CPU Time: 0 0: 5:35.80 ( 335.80 sec) Binary
2608  Time Step No. = 1240 Elapsed Time = 6.724873E+05 days
2609  Date: 02/14/07 Time: 10:11:02 CPU Time: 0 0: 5:40.05 ( 340.05 sec) Binary
2611  Time Step No. = 1260 Elapsed Time = 7.595756E+05 days
```

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2612    Date: 02/14/07 Time: 10:11:15 CPU Time: 0 0: 5:52.78 ( 352.78 sec) Binary
2614    Time Step No. = 1280 Elapsed Time = 7.597863E+05 days
2615    Date: 02/14/07 Time: 10:11:20 CPU Time: 0 0: 5:57.45 ( 357.45 sec) Binary
2617    Time Step No. = 1300 Elapsed Time = 7.652157E+05 days
2618    Date: 02/14/07 Time: 10:11:24 CPU Time: 0 0: 6: 2.12 ( 362.12 sec) Binary
2620    Time Step No. = 1320 Elapsed Time = 9.698579E+05 days
2621    Date: 02/14/07 Time: 10:11:33 CPU Time: 0 0: 6:10.51 ( 370.51 sec) Binary
2623    Time Step No. = 1340 Elapsed Time = 1.034415E+06 days
2624    Date: 02/14/07 Time: 10:11:41 CPU Time: 0 0: 6:18.90 ( 378.90 sec) Binary
2626    Time Step No. = 1360 Elapsed Time = 1.037401E+06 days
2627    Date: 02/14/07 Time: 10:11:47 CPU Time: 0 0: 6:24.43 ( 384.43 sec) Binary
2629    Time Step No. = 1380 Elapsed Time = 1.041328E+06 days
2630    Date: 02/14/07 Time: 10:11:51 CPU Time: 0 0: 6:28.69 ( 388.69 sec) Binary
2632    Time Step No. = 1400 Elapsed Time = 1.098365E+06 days
2633    Date: 02/14/07 Time: 10:11:58 CPU Time: 0 0: 6:36.19 ( 396.19 sec) Binary
2635    Time Step No. = 1420 Elapsed Time = 1.141983E+06 days
2636    Date: 02/14/07 Time: 10:12:09 CPU Time: 0 0: 6:46.82 ( 406.82 sec) Binary
2638    Time Step No. = 1440 Elapsed Time = 1.153665E+06 days
2639    Date: 02/14/07 Time: 10:12:14 CPU Time: 0 0: 6:51.69 ( 411.69 sec) Binary
2641    Time Step No. = 1460 Elapsed Time = 1.335324E+06 days
2642    Date: 02/14/07 Time: 10:12:24 CPU Time: 0 0: 7: 1.26 ( 421.26 sec) Binary
2644    Time Step No. = 1480 Elapsed Time = 1.341276E+06 days
2645    Date: 02/14/07 Time: 10:12:31 CPU Time: 0 0: 7: 8.51 ( 428.51 sec) Binary
2647    Time Step No. = 1500 Elapsed Time = 1.507144E+06 days
2648    Date: 02/14/07 Time: 10:12:38 CPU Time: 0 0: 7:15.72 ( 435.72 sec) Binary
2650    Time Step No. = 1520 Elapsed Time = 1.542314E+06 days
2651    Date: 02/14/07 Time: 10:12:47 CPU Time: 0 0: 7:24.30 ( 444.30 sec) Binary
2653    Time Step No. = 1540 Elapsed Time = 1.584898E+06 days
2654    Date: 02/14/07 Time: 10:12:59 CPU Time: 0 0: 7:36.54 ( 456.54 sec) Binary
2656    Time Step No. = 1560 Elapsed Time = 1.593257E+06 days
2657    Date: 02/14/07 Time: 10:13:04 CPU Time: 0 0: 7:41.28 ( 461.28 sec) Binary
2659    Time Step No. = 1580 Elapsed Time = 1.610328E+06 days
2660    Date: 02/14/07 Time: 10:13:14 CPU Time: 0 0: 7:51.37 ( 471.37 sec) Binary
2662    Time Step No. = 1600 Elapsed Time = 1.612772E+06 days
2663    Date: 02/14/07 Time: 10:13:18 CPU Time: 0 0: 7:55.37 ( 475.37 sec) Binary
2665    Time Step No. = 1620 Elapsed Time = 1.644829E+06 days
2666    Date: 02/14/07 Time: 10:13:27 CPU Time: 0 0: 8: 4.04 ( 484.04 sec) Binary
2668    Time Step No. = 1640 Elapsed Time = 1.647332E+06 days
2669    Date: 02/14/07 Time: 10:13:31 CPU Time: 0 0: 8: 8.12 ( 488.12 sec) Binary
2671    Time Step No. = 1660 Elapsed Time = 1.676105E+06 days
2672    Date: 02/14/07 Time: 10:13:40 CPU Time: 0 0: 8:17.22 ( 497.22 sec) Binary
2674    Time Step No. = 1680 Elapsed Time = 1.683726E+06 days
2675    Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 8:24.92 ( 504.92 sec) Binary
2677    Time Step No. = 1700 Elapsed Time = 1.687797E+06 days
2678    Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 8:32.14 ( 512.14 sec) Binary
2680    Time Step No. = 1720 Elapsed Time = 1.698092E+06 days
2681    Date: 02/14/07 Time: 10:14:04 CPU Time: 0 0: 8:41.64 ( 521.64 sec) Binary
2683    Time Step No. = 1740 Elapsed Time = 1.699011E+06 days
2684    Date: 02/14/07 Time: 10:14:10 CPU Time: 0 0: 8:47.29 ( 527.29 sec) Binary
2686    Time Step No. = 1760 Elapsed Time = 1.705672E+06 days
2687    Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 8:53.97 ( 533.97 sec) Binary
2689    Time Step No. = 1780 Elapsed Time = 1.706405E+06 days
2690    Date: 02/14/07 Time: 10:14:21 CPU Time: 0 0: 8:58.55 ( 538.55 sec) Binary
2692    Time Step No. = 1800 Elapsed Time = 1.706652E+06 days
2693    Date: 02/14/07 Time: 10:14:26 CPU Time: 0 0: 9: 2.91 ( 542.91 sec) Binary
2695    Time Step No. = 1820 Elapsed Time = 1.724983E+06 days
2696    Date: 02/14/07 Time: 10:14:30 CPU Time: 0 0: 9: 7.00 ( 547.00 sec) Binary
2698    Time Step No. = 1840 Elapsed Time = 1.787596E+06 days
2699    Date: 02/14/07 Time: 10:14:39 CPU Time: 0 0: 9:15.99 ( 555.99 sec) Binary
2701    Time Step No. = 1860 Elapsed Time = 1.788665E+06 days
2702    Date: 02/14/07 Time: 10:14:42 CPU Time: 0 0: 9:19.13 ( 559.13 sec) Binary
2704    Time Step No. = 1880 Elapsed Time = 1.881371E+06 days
2705    Date: 02/14/07 Time: 10:14:47 CPU Time: 0 0: 9:23.80 ( 563.80 sec) Binary
2707    Time Step No. = 1900 Elapsed Time = 1.938667E+06 days
2708    Date: 02/14/07 Time: 10:14:54 CPU Time: 0 0: 9:31.13 ( 571.13 sec) Binary
2710    Time Step No. = 1920 Elapsed Time = 1.983257E+06 days
2711    Date: 02/14/07 Time: 10:15:02 CPU Time: 0 0: 9:38.72 ( 578.72 sec) Binary
2713    Time Step No. = 1940 Elapsed Time = 2.079511E+06 days
2714    Date: 02/14/07 Time: 10:15:08 CPU Time: 0 0: 9:45.27 ( 585.27 sec) Binary
2716    Time Step No. = 1960 Elapsed Time = 2.106284E+06 days
2717    Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 9:51.89 ( 591.89 sec) Binary
2719    Time Step No. = 1980 Elapsed Time = 2.374555E+06 days
2720    Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 9:56.08 ( 596.08 sec) Binary
2722    Time Step No. = 2000 Elapsed Time = 2.774555E+06 days
2723    Date: 02/14/07 Time: 10:15:23 CPU Time: 0 0:10: 0.12 ( 600.12 sec) Binary
2725    Time Step No. = 2020 Elapsed Time = 3.174555E+06 days
```

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 2726     Date: 02/14/07 Time: 10:15:27 CPU Time: 0 0:10: 4.14 ( 604.14 sec) Binary
 2728     Time Step No. = 2040 Elapsed Time = 3.574555E+06 days
 2729     Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0:10: 8.18 ( 608.18 sec) Binary
 2732     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
 2748     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2749     CPU Time (total for run) = 523.22 sec = 0.14534 hr
 2750    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 2748     CPU Time (this time step) = 0.21 sec = 0.00006 hr
 2749     CPU Time (total for run) = 608.99 sec = 0.16916 hr
 2750    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1
 3426     Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:43.23 ( 523.23 sec) ASCII
 3428     Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
 3429     Date: 02/14/07 Time: 11:04:11 CPU Time: 0 0: 8:43.24 ( 523.24 sec) Binary
 3434     ****************************************************************************
 3435     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3436     * Completed: 02/14/07 at 11:04:11 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3437     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
 3426     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.01 ( 609.01 sec) ASCII
 3428     Time Step No. = 2044 Elapsed Time = 3.652431E+06 days
 3429     Date: 02/14/07 Time: 10:15:32 CPU Time: 0 0:10: 9.02 ( 609.02 sec) Binary
 3434     ****************************************************************************
 3435     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3436     * Completed: 02/14/07 at 10:15:32 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3437     ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 204

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES45_TEST7_V015.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V015]BF2_QB0600_ES47_TEST7_V015.OUT;1
```

BF2_QB0600_ES45_TEST7_V016_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
    3     ** Begun on: 02/14/07 at 10:57:53 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
    3     ** Begun on: 02/14/07 at 10:07:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_TEST7_V016.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 19.12 sec = 0.00531 hr
 1774     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 1772     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 1773     CPU Time (total for run) = 21.00 sec = 0.00583 hr
 1774     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
 2450     Date: 02/14/07 Time: 10:58:12 CPU Time: 0 0: 0:19.13 ( 19.13 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:58:12 CPU Time: 0 0: 0:19.13 ( 19.13 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2456     Date: 02/14/07 Time: 10:58:15 CPU Time: 0 0: 0:21.69 ( 21.69 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2459     Date: 02/14/07 Time: 10:58:18 CPU Time: 0 0: 0:25.19 ( 25.19 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2462     Date: 02/14/07 Time: 10:58:23 CPU Time: 0 0: 0:29.88 ( 29.88 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2465     Date: 02/14/07 Time: 10:58:28 CPU Time: 0 0: 0:35.49 ( 35.49 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2468     Date: 02/14/07 Time: 10:58:34 CPU Time: 0 0: 0:40.86 ( 40.86 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2471     Date: 02/14/07 Time: 10:58:38 CPU Time: 0 0: 0:44.93 ( 44.93 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2474     Date: 02/14/07 Time: 10:58:40 CPU Time: 0 0: 0:46.76 ( 46.76 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2477     Date: 02/14/07 Time: 10:58:43 CPU Time: 0 0: 0:50.36 ( 50.36 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2480     Date: 02/14/07 Time: 10:58:49 CPU Time: 0 0: 0:56.44 ( 56.44 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2483     Date: 02/14/07 Time: 10:58:58 CPU Time: 0 0: 1: 4.90 ( 64.90 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2486     Date: 02/14/07 Time: 10:59:02 CPU Time: 0 0: 1: 9.41 ( 69.41 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2489     Date: 02/14/07 Time: 10:59:09 CPU Time: 0 0: 1:16.40 ( 76.40 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.125125E+05 days
```

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2492    Date: 02/14/07 Time: 10:59:18 CPU Time: 0 0: 1:24.48 ( 84.48 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 1.133195E+05 days
2495    Date: 02/14/07 Time: 10:59:22 CPU Time: 0 0: 1:29.01 ( 89.01 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 1.135730E+05 days
2498    Date: 02/14/07 Time: 10:59:27 CPU Time: 0 0: 1:34.16 ( 94.16 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 1.168842E+05 days
2501    Date: 02/14/07 Time: 10:59:33 CPU Time: 0 0: 1:39.61 ( 99.61 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 1.332167E+05 days
2504    Date: 02/14/07 Time: 10:59:39 CPU Time: 0 0: 1:46.21 ( 106.21 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 1.516402E+05 days
2507    Date: 02/14/07 Time: 10:59:47 CPU Time: 0 0: 1:54.16 ( 114.16 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 1.516853E+05 days
2510    Date: 02/14/07 Time: 10:59:52 CPU Time: 0 0: 1:58.68 ( 118.68 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 1.529846E+05 days
2513    Date: 02/14/07 Time: 10:59:56 CPU Time: 0 0: 2: 2.98 ( 122.98 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 1.811566E+05 days
2516    Date: 02/14/07 Time: 11:00:01 CPU Time: 0 0: 2: 8.20 ( 128.20 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 3.652431E+05 days
2519    Date: 02/14/07 Time: 11:00:12 CPU Time: 0 0: 2:18.42 ( 138.42 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 3.652431E+05 days
2522    Date: 02/14/07 Time: 11:00:14 CPU Time: 0 0: 2:20.77 ( 140.77 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 3.652431E+05 days
2525    Date: 02/14/07 Time: 11:00:16 CPU Time: 0 0: 2:23.11 ( 143.11 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528    Date: 02/14/07 Time: 11:00:19 CPU Time: 0 0: 2:25.52 ( 145.52 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531    Date: 02/14/07 Time: 11:00:22 CPU Time: 0 0: 2:29.07 ( 149.07 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534    Date: 02/14/07 Time: 11:00:27 CPU Time: 0 0: 2:33.64 ( 153.64 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537    Date: 02/14/07 Time: 11:00:32 CPU Time: 0 0: 2:38.75 ( 158.75 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540    Date: 02/14/07 Time: 11:00:34 CPU Time: 0 0: 2:40.63 ( 160.63 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543    Date: 02/14/07 Time: 11:00:37 CPU Time: 0 0: 2:44.13 ( 164.13 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546    Date: 02/14/07 Time: 11:00:42 CPU Time: 0 0: 2:49.23 ( 169.23 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549    Date: 02/14/07 Time: 11:00:48 CPU Time: 0 0: 2:54.39 ( 174.39 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552    Date: 02/14/07 Time: 11:00:55 CPU Time: 0 0: 3: 1.38 ( 181.38 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555    Date: 02/14/07 Time: 11:01:01 CPU Time: 0 0: 3: 7.52 ( 187.52 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558    Date: 02/14/07 Time: 11:01:05 CPU Time: 0 0: 3:11.51 ( 191.51 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561    Date: 02/14/07 Time: 11:01:13 CPU Time: 0 0: 3:19.83 ( 199.83 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564    Date: 02/14/07 Time: 11:01:21 CPU Time: 0 0: 3:27.28 ( 207.28 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567    Date: 02/14/07 Time: 11:01:28 CPU Time: 0 0: 3:34.56 ( 214.56 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570    Date: 02/14/07 Time: 11:01:34 CPU Time: 0 0: 3:41.03 ( 221.03 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573    Date: 02/14/07 Time: 11:01:41 CPU Time: 0 0: 3:47.33 ( 227.33 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576    Date: 02/14/07 Time: 11:01:49 CPU Time: 0 0: 3:55.47 ( 235.47 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579    Date: 02/14/07 Time: 11:01:56 CPU Time: 0 0: 4: 2.82 ( 242.82 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582    Date: 02/14/07 Time: 11:02:02 CPU Time: 0 0: 4: 8.20 ( 248.20 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585    Date: 02/14/07 Time: 11:02:10 CPU Time: 0 0: 4:16.40 ( 256.40 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588    Date: 02/14/07 Time: 11:02:16 CPU Time: 0 0: 4:22.55 ( 262.55 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591    Date: 02/14/07 Time: 11:02:25 CPU Time: 0 0: 4:31.86 ( 271.86 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594    Date: 02/14/07 Time: 11:02:31 CPU Time: 0 0: 4:37.29 ( 277.29 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597    Date: 02/14/07 Time: 11:02:37 CPU Time: 0 0: 4:43.29 ( 283.29 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600    Date: 02/14/07 Time: 11:02:44 CPU Time: 0 0: 4:50.57 ( 290.57 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603    Date: 02/14/07 Time: 11:02:51 CPU Time: 0 0: 4:57.12 ( 297.12 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
```

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 2606     Date: 02/14/07 Time: 11:02:58 CPU Time: 0 0: 5: 4.54 ( 304.54 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
 2609     Date: 02/14/07 Time: 11:03:05 CPU Time: 0 0: 5:11.49 ( 311.49 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
 2612     Date: 02/14/07 Time: 11:03:12 CPU Time: 0 0: 5:18.77 ( 318.77 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
 2615     Date: 02/14/07 Time: 11:03:19 CPU Time: 0 0: 5:25.66 ( 325.66 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
 2618     Date: 02/14/07 Time: 11:03:25 CPU Time: 0 0: 5:31.62 ( 331.62 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
 2621     Date: 02/14/07 Time: 11:03:31 CPU Time: 0 0: 5:37.40 ( 337.40 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
 2624     Date: 02/14/07 Time: 11:03:38 CPU Time: 0 0: 5:44.72 ( 344.72 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
 2627     Date: 02/14/07 Time: 11:03:44 CPU Time: 0 0: 5:50.23 ( 350.23 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
 2630     Date: 02/14/07 Time: 11:03:51 CPU Time: 0 0: 5:57.35 ( 357.35 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
 2633     Date: 02/14/07 Time: 11:03:58 CPU Time: 0 0: 6: 4.32 ( 364.32 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
 2636     Date: 02/14/07 Time: 11:04:02 CPU Time: 0 0: 6: 8.09 ( 368.09 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
 2639     Date: 02/14/07 Time: 11:04:05 CPU Time: 0 0: 6:11.71 ( 371.71 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2450     Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:07:46 CPU Time: 0 0: 0:21.02 ( 21.02 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 5.018459E-01 days
 2456     Date: 02/14/07 Time: 10:07:49 CPU Time: 0 0: 0:23.84 ( 23.84 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 4.491969E+01 days
 2459     Date: 02/14/07 Time: 10:07:52 CPU Time: 0 0: 0:27.68 ( 27.68 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.751377E+03 days
 2462     Date: 02/14/07 Time: 10:07:58 CPU Time: 0 0: 0:32.84 ( 32.84 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.890365E+04 days
 2465     Date: 02/14/07 Time: 10:08:04 CPU Time: 0 0: 0:38.99 ( 38.99 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.653346E+04 days
 2468     Date: 02/14/07 Time: 10:08:10 CPU Time: 0 0: 0:44.91 ( 44.91 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.666151E+04 days
 2471     Date: 02/14/07 Time: 10:08:14 CPU Time: 0 0: 0:49.40 ( 49.40 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667459E+04 days
 2474     Date: 02/14/07 Time: 10:08:16 CPU Time: 0 0: 0:51.41 ( 51.41 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.759885E+04 days
 2477     Date: 02/14/07 Time: 10:08:20 CPU Time: 0 0: 0:55.38 ( 55.38 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 7.590037E+04 days
 2480     Date: 02/14/07 Time: 10:08:27 CPU Time: 0 0: 1: 2.06 ( 62.06 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 8.991400E+04 days
 2483     Date: 02/14/07 Time: 10:08:36 CPU Time: 0 0: 1:11.39 ( 71.39 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 9.405817E+04 days
 2486     Date: 02/14/07 Time: 10:08:41 CPU Time: 0 0: 1:16.37 ( 76.37 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 1.044295E+05 days
 2489     Date: 02/14/07 Time: 10:08:49 CPU Time: 0 0: 1:24.07 ( 84.07 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.125125E+05 days
 2492     Date: 02/14/07 Time: 10:08:58 CPU Time: 0 0: 1:32.97 ( 92.97 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.133195E+05 days
 2495     Date: 02/14/07 Time: 10:09:03 CPU Time: 0 0: 1:37.96 ( 97.96 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.135730E+05 days
 2498     Date: 02/14/07 Time: 10:09:09 CPU Time: 0 0: 1:43.65 ( 103.65 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 1.168842E+05 days
 2501     Date: 02/14/07 Time: 10:09:15 CPU Time: 0 0: 1:49.65 ( 109.65 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 1.332167E+05 days
 2504     Date: 02/14/07 Time: 10:09:22 CPU Time: 0 0: 1:56.91 ( 116.91 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 1.516402E+05 days
 2507     Date: 02/14/07 Time: 10:09:31 CPU Time: 0 0: 2: 5.66 ( 125.66 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 1.516853E+05 days
 2510     Date: 02/14/07 Time: 10:09:36 CPU Time: 0 0: 2:10.65 ( 130.65 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 1.529846E+05 days
 2513     Date: 02/14/07 Time: 10:09:41 CPU Time: 0 0: 2:15.39 ( 135.39 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 1.811566E+05 days
 2516     Date: 02/14/07 Time: 10:09:46 CPU Time: 0 0: 2:21.13 ( 141.13 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 3.652431E+05 days
 2519     Date: 02/14/07 Time: 10:09:58 CPU Time: 0 0: 2:32.36 ( 152.36 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 3.652431E+05 days
 2522     Date: 02/14/07 Time: 10:10:00 CPU Time: 0 0: 2:34.95 ( 154.95 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 3.652431E+05 days
```

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2525    Date: 02/14/07 Time: 10:10:03 CPU Time: 0 0: 2:37.54 ( 157.54 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 3.652439E+05 days
2528    Date: 02/14/07 Time: 10:10:06 CPU Time: 0 0: 2:40.20 ( 160.20 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 3.652792E+05 days
2531    Date: 02/14/07 Time: 10:10:10 CPU Time: 0 0: 2:44.42 ( 164.42 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 3.655581E+05 days
2534    Date: 02/14/07 Time: 10:10:15 CPU Time: 0 0: 2:49.86 ( 169.86 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 3.665267E+05 days
2537    Date: 02/14/07 Time: 10:10:21 CPU Time: 0 0: 2:55.92 ( 175.92 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 3.665372E+05 days
2540    Date: 02/14/07 Time: 10:10:24 CPU Time: 0 0: 2:58.18 ( 178.18 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.673325E+05 days
2543    Date: 02/14/07 Time: 10:10:28 CPU Time: 0 0: 3: 2.35 ( 182.35 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.680882E+05 days
2546    Date: 02/14/07 Time: 10:10:34 CPU Time: 0 0: 3: 8.39 ( 188.39 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.755154E+05 days
2549    Date: 02/14/07 Time: 10:10:40 CPU Time: 0 0: 3:14.51 ( 194.51 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.884150E+05 days
2552    Date: 02/14/07 Time: 10:10:48 CPU Time: 0 0: 3:22.79 ( 202.79 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 4.398143E+05 days
2555    Date: 02/14/07 Time: 10:10:56 CPU Time: 0 0: 3:30.06 ( 210.06 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 4.509745E+05 days
2558    Date: 02/14/07 Time: 10:11:00 CPU Time: 0 0: 3:34.82 ( 214.82 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 6.255136E+05 days
2561    Date: 02/14/07 Time: 10:11:10 CPU Time: 0 0: 3:44.66 ( 224.66 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 7.581150E+05 days
2564    Date: 02/14/07 Time: 10:11:19 CPU Time: 0 0: 3:53.47 ( 233.47 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 7.985275E+05 days
2567    Date: 02/14/07 Time: 10:11:28 CPU Time: 0 0: 4: 2.08 ( 242.08 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 1.153809E+06 days
2570    Date: 02/14/07 Time: 10:11:35 CPU Time: 0 0: 4: 9.73 ( 249.73 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 1.553206E+06 days
2573    Date: 02/14/07 Time: 10:11:43 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 1.821876E+06 days
2576    Date: 02/14/07 Time: 10:11:53 CPU Time: 0 0: 4:27.18 ( 267.18 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 1.917947E+06 days
2579    Date: 02/14/07 Time: 10:12:02 CPU Time: 0 0: 4:36.04 ( 276.04 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 1.957679E+06 days
2582    Date: 02/14/07 Time: 10:12:08 CPU Time: 0 0: 4:42.58 ( 282.58 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 2.019375E+06 days
2585    Date: 02/14/07 Time: 10:12:18 CPU Time: 0 0: 4:52.52 ( 292.52 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 2.057381E+06 days
2588    Date: 02/14/07 Time: 10:12:26 CPU Time: 0 0: 4:59.94 ( 299.94 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 2.150225E+06 days
2591    Date: 02/14/07 Time: 10:12:37 CPU Time: 0 0: 5:11.16 ( 311.16 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 2.169380E+06 days
2594    Date: 02/14/07 Time: 10:12:44 CPU Time: 0 0: 5:17.74 ( 317.74 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 2.200608E+06 days
2597    Date: 02/14/07 Time: 10:12:51 CPU Time: 0 0: 5:25.01 ( 325.01 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 2.279722E+06 days
2600    Date: 02/14/07 Time: 10:13:00 CPU Time: 0 0: 5:33.82 ( 333.82 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 2.312949E+06 days
2603    Date: 02/14/07 Time: 10:13:08 CPU Time: 0 0: 5:41.72 ( 341.72 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 2.348360E+06 days
2606    Date: 02/14/07 Time: 10:13:17 CPU Time: 0 0: 5:50.60 ( 350.60 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 2.361300E+06 days
2609    Date: 02/14/07 Time: 10:13:25 CPU Time: 0 0: 5:58.80 ( 358.80 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 2.395228E+06 days
2612    Date: 02/14/07 Time: 10:13:33 CPU Time: 0 0: 6: 7.41 ( 367.41 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 2.420598E+06 days
2615    Date: 02/14/07 Time: 10:13:41 CPU Time: 0 0: 6:15.34 ( 375.34 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 2.469898E+06 days
2618    Date: 02/14/07 Time: 10:13:48 CPU Time: 0 0: 6:22.23 ( 382.23 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 2.523884E+06 days
2621    Date: 02/14/07 Time: 10:13:55 CPU Time: 0 0: 6:28.91 ( 388.91 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 2.597076E+06 days
2624    Date: 02/14/07 Time: 10:14:03 CPU Time: 0 0: 6:37.21 ( 397.21 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 2.686846E+06 days
2627    Date: 02/14/07 Time: 10:14:09 CPU Time: 0 0: 6:43.28 ( 403.28 sec) Binary
2629    Time Step No. = 1300 Elapsed Time = 2.711337E+06 days
2630    Date: 02/14/07 Time: 10:14:17 CPU Time: 0 0: 6:51.12 ( 411.12 sec) Binary
2632    Time Step No. = 1320 Elapsed Time = 2.802768E+06 days
2633    Date: 02/14/07 Time: 10:14:25 CPU Time: 0 0: 6:58.83 ( 418.83 sec) Binary
2635    Time Step No. = 1340 Elapsed Time = 3.010581E+06 days
2636    Date: 02/14/07 Time: 10:14:29 CPU Time: 0 0: 7: 3.01 ( 423.01 sec) Binary
2638    Time Step No. = 1360 Elapsed Time = 3.410581E+06 days
```

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 2639     Date: 02/14/07 Time: 10:14:33 CPU Time: 0 0: 7: 6.99 ( 426.99 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
 2658     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2659     CPU Time (total for run) = 374.46 sec = 0.10402 hr
 2660    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 2658     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 2659     CPU Time (total for run) = 430.01 sec = 0.11945 hr
 2660    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1
 3336     Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0: 6:14.48 ( 374.48 sec) ASCII
 3338     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 11:04:08 CPU Time: 0 0: 6:14.48 ( 374.48 sec) Binary
 3344     ******************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 11:04:08 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3347     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
 3336     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) ASCII
 3338     Time Step No. = 1373 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:14:36 CPU Time: 0 0: 7:10.01 ( 430.01 sec) Binary
 3344     ******************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 10:14:36 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3347     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 144

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES45_TEST7_V016.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V016]BF2_QB0600_ES47_TEST7_V016.OUT;1
```

BF2_QB0600_ES45_TEST7_V017_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
    3     ** Begun on: 02/14/07 at 11:04:15 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
    3     ** Begun on: 02/14/07 at 10:14:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_TEST7_V017.INP;2
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
```

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   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.SUM;1
   77     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.SUM;1
   77     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.BIN;1
   82     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.BIN;1
   82     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.ROT;1
   87     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.ROT;1
   87     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
 1772     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 1773     CPU Time (total for run) = 20.50 sec = 0.00569 hr
 1774    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
 2450     Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 0:20.51 ( 20.51 sec) ASCII
 2452     Time Step No. = 127 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:04:35 CPU Time: 0 0: 0:20.51 ( 20.51 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 4.081566E-01 days
 2456     Date: 02/14/07 Time: 11:04:38 CPU Time: 0 0: 0:23.01 ( 23.01 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.566025E+01 days
 2459     Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:26.35 ( 26.35 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 1.805959E+03 days
 2462     Date: 02/14/07 Time: 11:04:46 CPU Time: 0 0: 0:30.87 ( 30.87 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.071373E+04 days
 2465     Date: 02/14/07 Time: 11:04:52 CPU Time: 0 0: 0:37.31 ( 37.31 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.383842E+04 days
 2468     Date: 02/14/07 Time: 11:04:59 CPU Time: 0 0: 0:44.08 ( 44.08 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 2.798180E+04 days
 2471     Date: 02/14/07 Time: 11:05:09 CPU Time: 0 0: 0:54.14 ( 54.14 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 2.847338E+04 days
 2474     Date: 02/14/07 Time: 11:05:14 CPU Time: 0 0: 0:58.97 ( 58.97 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.652452E+04 days
 2477     Date: 02/14/07 Time: 11:05:19 CPU Time: 0 0: 1: 3.61 ( 63.61 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.656711E+04 days
 2480     Date: 02/14/07 Time: 11:05:23 CPU Time: 0 0: 1: 7.82 ( 67.82 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.666399E+04 days
 2483     Date: 02/14/07 Time: 11:05:26 CPU Time: 0 0: 1:11.22 ( 71.22 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 3.668035E+04 days
 2486     Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1:13.10 ( 73.10 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 3.804994E+04 days
 2489     Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0: 1:16.81 ( 76.81 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 4.830166E+04 days
 2492     Date: 02/14/07 Time: 11:05:39 CPU Time: 0 0: 1:24.25 ( 84.25 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 5.127831E+04 days
```

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2495    Date: 02/14/07 Time: 11:05:49 CPU Time: 0 0: 1:34.16 ( 94.16 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498    Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:37.21 ( 97.21 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501    Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 1:43.31 ( 103.31 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504    Date: 02/14/07 Time: 11:06:04 CPU Time: 0 0: 1:48.19 ( 108.19 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507    Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0: 1:55.93 ( 115.93 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510    Date: 02/14/07 Time: 11:06:17 CPU Time: 0 0: 2: 1.66 ( 121.66 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513    Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 2: 8.22 ( 128.22 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516    Date: 02/14/07 Time: 11:06:27 CPU Time: 0 0: 2:11.91 ( 131.91 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 8.514452E+04 days
2519    Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 2:16.49 ( 136.49 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522    Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 2:23.15 ( 143.15 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525    Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 2:32.43 ( 152.43 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528    Date: 02/14/07 Time: 11:06:54 CPU Time: 0 0: 2:38.27 ( 158.27 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531    Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 2:43.48 ( 163.48 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534    Date: 02/14/07 Time: 11:07:06 CPU Time: 0 0: 2:50.19 ( 170.19 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537    Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 2:55.37 ( 175.37 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540    Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 3: 4.96 ( 184.96 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543    Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 3:10.39 ( 190.39 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546    Date: 02/14/07 Time: 11:07:31 CPU Time: 0 0: 3:15.78 ( 195.78 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549    Date: 02/14/07 Time: 11:07:36 CPU Time: 0 0: 3:19.86 ( 199.86 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552    Date: 02/14/07 Time: 11:07:40 CPU Time: 0 0: 3:23.92 ( 203.92 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555    Date: 02/14/07 Time: 11:07:41 CPU Time: 0 0: 3:25.27 ( 205.27 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558    Date: 02/14/07 Time: 11:07:44 CPU Time: 0 0: 3:28.68 ( 208.68 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561    Date: 02/14/07 Time: 11:07:50 CPU Time: 0 0: 3:34.45 ( 214.45 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564    Date: 02/14/07 Time: 11:07:59 CPU Time: 0 0: 3:43.05 ( 223.05 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567    Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0: 3:49.11 ( 229.11 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570    Date: 02/14/07 Time: 11:08:13 CPU Time: 0 0: 3:57.24 ( 237.24 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573    Date: 02/14/07 Time: 11:08:20 CPU Time: 0 0: 4: 4.45 ( 244.45 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576    Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 4:10.32 ( 250.32 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579    Date: 02/14/07 Time: 11:08:35 CPU Time: 0 0: 4:19.18 ( 259.18 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582    Date: 02/14/07 Time: 11:08:42 CPU Time: 0 0: 4:26.23 ( 266.23 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585    Date: 02/14/07 Time: 11:08:51 CPU Time: 0 0: 4:34.95 ( 274.95 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588    Date: 02/14/07 Time: 11:08:57 CPU Time: 0 0: 4:40.44 ( 280.44 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591    Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 4:47.62 ( 287.62 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594    Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 4:57.01 ( 297.01 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597    Date: 02/14/07 Time: 11:09:19 CPU Time: 0 0: 5: 2.30 ( 302.30 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600    Date: 02/14/07 Time: 11:09:27 CPU Time: 0 0: 5:10.33 ( 310.33 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603    Date: 02/14/07 Time: 11:09:33 CPU Time: 0 0: 5:16.70 ( 316.70 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606    Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
```

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2609    Date: 02/14/07 Time: 11:09:48 CPU Time: 0 0: 5:31.27 ( 331.27 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612    Date: 02/14/07 Time: 11:09:54 CPU Time: 0 0: 5:38.01 ( 338.01 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615    Date: 02/14/07 Time: 11:10:03 CPU Time: 0 0: 5:46.54 ( 346.54 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618    Date: 02/14/07 Time: 11:10:11 CPU Time: 0 0: 5:54.13 ( 354.13 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621    Date: 02/14/07 Time: 11:10:14 CPU Time: 0 0: 5:57.83 ( 357.83 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624    Date: 02/14/07 Time: 11:10:21 CPU Time: 0 0: 6: 4.32 ( 364.32 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627    Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 6:10.87 ( 370.87 sec) Binary
2629    Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630    Date: 02/14/07 Time: 11:10:31 CPU Time: 0 0: 6:14.45 ( 374.45 sec) Binary
2632    Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
2633    Date: 02/14/07 Time: 11:10:39 CPU Time: 0 0: 6:22.30 ( 382.30 sec) Binary
2635    Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
2636    Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 6:26.01 ( 386.01 sec) Binary
2638    Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
2639    Date: 02/14/07 Time: 11:10:46 CPU Time: 0 0: 6:29.72 ( 389.72 sec) Binary
2641    Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
2642    Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 6:33.42 ( 393.42 sec) Binary
2644    Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
2645    Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 6:37.02 ( 397.02 sec) Binary
2647    Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
2648    Date: 02/14/07 Time: 11:10:57 CPU Time: 0 0: 6:40.61 ( 400.61 sec) Binary
2651    Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
2450    Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
2452    Time Step No. = 127 Elapsed Time = 0.000000E+00 days
2453    Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:23.68 ( 23.68 sec) Binary
2455    Time Step No. = 140 Elapsed Time = 4.081566E-01 days
2456    Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:26.45 ( 26.45 sec) Binary
2458    Time Step No. = 160 Elapsed Time = 3.566025E+01 days
2459    Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:30.15 ( 30.15 sec) Binary
2461    Time Step No. = 180 Elapsed Time = 1.805959E+03 days
2462    Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:35.13 ( 35.13 sec) Binary
2464    Time Step No. = 200 Elapsed Time = 1.071373E+04 days
2465    Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:42.17 ( 42.17 sec) Binary
2467    Time Step No. = 220 Elapsed Time = 2.383842E+04 days
2468    Date: 02/14/07 Time: 10:15:38 CPU Time: 0 0: 0:49.61 ( 49.61 sec) Binary
2470    Time Step No. = 240 Elapsed Time = 2.798180E+04 days
2471    Date: 02/14/07 Time: 10:15:50 CPU Time: 0 0: 1: 0.82 ( 60.82 sec) Binary
2473    Time Step No. = 260 Elapsed Time = 2.847338E+04 days
2474    Date: 02/14/07 Time: 10:15:55 CPU Time: 0 0: 1: 6.12 ( 66.12 sec) Binary
2476    Time Step No. = 280 Elapsed Time = 3.652452E+04 days
2477    Date: 02/14/07 Time: 10:16:00 CPU Time: 0 0: 1:11.21 ( 71.21 sec) Binary
2479    Time Step No. = 300 Elapsed Time = 3.656711E+04 days
2480    Date: 02/14/07 Time: 10:16:05 CPU Time: 0 0: 1:15.84 ( 75.84 sec) Binary
2482    Time Step No. = 320 Elapsed Time = 3.666399E+04 days
2483    Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:19.58 ( 79.58 sec) Binary
2485    Time Step No. = 340 Elapsed Time = 3.668035E+04 days
2486    Date: 02/14/07 Time: 10:16:11 CPU Time: 0 0: 1:21.65 ( 81.65 sec) Binary
2488    Time Step No. = 360 Elapsed Time = 3.804994E+04 days
2489    Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 1:25.72 ( 85.72 sec) Binary
2491    Time Step No. = 380 Elapsed Time = 4.830166E+04 days
2492    Date: 02/14/07 Time: 10:16:23 CPU Time: 0 0: 1:33.84 ( 93.84 sec) Binary
2494    Time Step No. = 400 Elapsed Time = 5.127831E+04 days
2495    Date: 02/14/07 Time: 10:16:34 CPU Time: 0 0: 1:44.68 ( 104.68 sec) Binary
2497    Time Step No. = 420 Elapsed Time = 5.134701E+04 days
2498    Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:48.03 ( 108.03 sec) Binary
2500    Time Step No. = 440 Elapsed Time = 5.218497E+04 days
2501    Date: 02/14/07 Time: 10:16:44 CPU Time: 0 0: 1:54.68 ( 114.68 sec) Binary
2503    Time Step No. = 460 Elapsed Time = 6.083942E+04 days
2504    Date: 02/14/07 Time: 10:16:49 CPU Time: 0 0: 2: 0.04 ( 120.04 sec) Binary
2506    Time Step No. = 480 Elapsed Time = 7.130398E+04 days
2507    Date: 02/14/07 Time: 10:16:58 CPU Time: 0 0: 2: 8.50 ( 128.50 sec) Binary
2509    Time Step No. = 500 Elapsed Time = 7.759660E+04 days
2510    Date: 02/14/07 Time: 10:17:04 CPU Time: 0 0: 2:14.76 ( 134.76 sec) Binary
2512    Time Step No. = 520 Elapsed Time = 7.800566E+04 days
2513    Date: 02/14/07 Time: 10:17:11 CPU Time: 0 0: 2:21.94 ( 141.94 sec) Binary
2515    Time Step No. = 540 Elapsed Time = 7.817753E+04 days
2516    Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 2:26.04 ( 146.04 sec) Binary
2518    Time Step No. = 560 Elapsed Time = 8.514452E+04 days
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2519    Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:31.03 ( 151.03 sec) Binary
2521    Time Step No. = 580 Elapsed Time = 1.017547E+05 days
2522    Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:38.33 ( 158.33 sec) Binary
2524    Time Step No. = 600 Elapsed Time = 1.389481E+05 days
2525    Date: 02/14/07 Time: 10:17:38 CPU Time: 0 0: 2:48.53 ( 168.53 sec) Binary
2527    Time Step No. = 620 Elapsed Time = 1.423530E+05 days
2528    Date: 02/14/07 Time: 10:17:44 CPU Time: 0 0: 2:54.87 ( 174.87 sec) Binary
2530    Time Step No. = 640 Elapsed Time = 1.864304E+05 days
2531    Date: 02/14/07 Time: 10:17:50 CPU Time: 0 0: 3: 0.63 ( 180.63 sec) Binary
2533    Time Step No. = 660 Elapsed Time = 1.882230E+05 days
2534    Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 8.00 ( 188.00 sec) Binary
2536    Time Step No. = 680 Elapsed Time = 1.986077E+05 days
2537    Date: 02/14/07 Time: 10:18:03 CPU Time: 0 0: 3:13.70 ( 193.70 sec) Binary
2539    Time Step No. = 700 Elapsed Time = 2.830917E+05 days
2540    Date: 02/14/07 Time: 10:18:14 CPU Time: 0 0: 3:24.27 ( 204.27 sec) Binary
2542    Time Step No. = 720 Elapsed Time = 3.158487E+05 days
2543    Date: 02/14/07 Time: 10:18:20 CPU Time: 0 0: 3:30.22 ( 210.22 sec) Binary
2545    Time Step No. = 740 Elapsed Time = 3.652487E+05 days
2546    Date: 02/14/07 Time: 10:18:25 CPU Time: 0 0: 3:36.16 ( 216.16 sec) Binary
2548    Time Step No. = 760 Elapsed Time = 3.653477E+05 days
2549    Date: 02/14/07 Time: 10:18:30 CPU Time: 0 0: 3:40.60 ( 220.60 sec) Binary
2551    Time Step No. = 780 Elapsed Time = 3.666426E+05 days
2552    Date: 02/14/07 Time: 10:18:34 CPU Time: 0 0: 3:45.07 ( 225.07 sec) Binary
2554    Time Step No. = 800 Elapsed Time = 3.666557E+05 days
2555    Date: 02/14/07 Time: 10:18:36 CPU Time: 0 0: 3:46.57 ( 226.57 sec) Binary
2557    Time Step No. = 820 Elapsed Time = 3.676756E+05 days
2558    Date: 02/14/07 Time: 10:18:40 CPU Time: 0 0: 3:50.33 ( 230.33 sec) Binary
2560    Time Step No. = 840 Elapsed Time = 4.168857E+05 days
2561    Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:56.66 ( 236.66 sec) Binary
2563    Time Step No. = 860 Elapsed Time = 4.834104E+05 days
2564    Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 6.11 ( 246.11 sec) Binary
2566    Time Step No. = 880 Elapsed Time = 6.250995E+05 days
2567    Date: 02/14/07 Time: 10:19:02 CPU Time: 0 0: 4:12.76 ( 252.76 sec) Binary
2569    Time Step No. = 900 Elapsed Time = 6.472604E+05 days
2570    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:21.71 ( 261.71 sec) Binary
2572    Time Step No. = 920 Elapsed Time = 8.509338E+05 days
2573    Date: 02/14/07 Time: 10:19:19 CPU Time: 0 0: 4:29.60 ( 269.60 sec) Binary
2575    Time Step No. = 940 Elapsed Time = 8.666179E+05 days
2576    Date: 02/14/07 Time: 10:19:26 CPU Time: 0 0: 4:36.08 ( 276.08 sec) Binary
2578    Time Step No. = 960 Elapsed Time = 8.980547E+05 days
2579    Date: 02/14/07 Time: 10:19:35 CPU Time: 0 0: 4:45.79 ( 285.79 sec) Binary
2581    Time Step No. = 980 Elapsed Time = 9.084805E+05 days
2582    Date: 02/14/07 Time: 10:19:43 CPU Time: 0 0: 4:53.57 ( 293.57 sec) Binary
2584    Time Step No. = 1000 Elapsed Time = 9.303573E+05 days
2585    Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 5: 3.15 ( 303.15 sec) Binary
2587    Time Step No. = 1020 Elapsed Time = 9.354913E+05 days
2588    Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 9.18 ( 309.18 sec) Binary
2590    Time Step No. = 1040 Elapsed Time = 9.627726E+05 days
2591    Date: 02/14/07 Time: 10:20:07 CPU Time: 0 0: 5:17.07 ( 317.07 sec) Binary
2593    Time Step No. = 1060 Elapsed Time = 9.865575E+05 days
2594    Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 5:27.37 ( 327.37 sec) Binary
2596    Time Step No. = 1080 Elapsed Time = 1.010557E+06 days
2597    Date: 02/14/07 Time: 10:20:23 CPU Time: 0 0: 5:33.15 ( 333.15 sec) Binary
2599    Time Step No. = 1100 Elapsed Time = 1.037354E+06 days
2600    Date: 02/14/07 Time: 10:20:32 CPU Time: 0 0: 5:41.97 ( 341.97 sec) Binary
2602    Time Step No. = 1120 Elapsed Time = 1.044114E+06 days
2603    Date: 02/14/07 Time: 10:20:39 CPU Time: 0 0: 5:49.44 ( 349.44 sec) Binary
2605    Time Step No. = 1140 Elapsed Time = 1.051085E+06 days
2606    Date: 02/14/07 Time: 10:20:48 CPU Time: 0 0: 5:58.38 ( 358.38 sec) Binary
2608    Time Step No. = 1160 Elapsed Time = 1.056924E+06 days
2609    Date: 02/14/07 Time: 10:20:57 CPU Time: 0 0: 6: 6.96 ( 366.96 sec) Binary
2611    Time Step No. = 1180 Elapsed Time = 1.069927E+06 days
2612    Date: 02/14/07 Time: 10:21:05 CPU Time: 0 0: 6:15.06 ( 375.06 sec) Binary
2614    Time Step No. = 1200 Elapsed Time = 1.074785E+06 days
2615    Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 6:25.12 ( 385.12 sec) Binary
2617    Time Step No. = 1220 Elapsed Time = 1.098676E+06 days
2618    Date: 02/14/07 Time: 10:21:24 CPU Time: 0 0: 6:34.07 ( 394.07 sec) Binary
2620    Time Step No. = 1240 Elapsed Time = 1.104263E+06 days
2621    Date: 02/14/07 Time: 10:21:29 CPU Time: 0 0: 6:38.45 ( 398.45 sec) Binary
2623    Time Step No. = 1260 Elapsed Time = 1.154509E+06 days
2624    Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 6:46.09 ( 406.09 sec) Binary
2626    Time Step No. = 1280 Elapsed Time = 1.203455E+06 days
2627    Date: 02/14/07 Time: 10:21:44 CPU Time: 0 0: 6:53.55 ( 413.55 sec) Binary
2629    Time Step No. = 1300 Elapsed Time = 1.359187E+06 days
2630    Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 6:57.51 ( 417.51 sec) Binary
2632    Time Step No. = 1320 Elapsed Time = 1.597020E+06 days
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 2633     Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 7: 6.14 ( 426.14 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 1.943096E+06 days
 2636     Date: 02/14/07 Time: 10:22:00 CPU Time: 0 0: 7:10.23 ( 430.23 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 2.343096E+06 days
 2639     Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 7:14.31 ( 434.31 sec) Binary
 2641     Time Step No. = 1380 Elapsed Time = 2.743096E+06 days
 2642     Date: 02/14/07 Time: 10:22:09 CPU Time: 0 0: 7:18.38 ( 438.38 sec) Binary
 2644     Time Step No. = 1400 Elapsed Time = 3.143096E+06 days
 2645     Date: 02/14/07 Time: 10:22:13 CPU Time: 0 0: 7:22.33 ( 442.33 sec) Binary
 2647     Time Step No. = 1420 Elapsed Time = 3.543096E+06 days
 2648     Date: 02/14/07 Time: 10:22:17 CPU Time: 0 0: 7:26.28 ( 446.28 sec) Binary
 2651     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
 2667     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2668     CPU Time (total for run) = 401.69 sec = 0.11158 hr
 2669    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 2667     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2668     CPU Time (total for run) = 447.46 sec = 0.12429 hr
 2669    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1
 3345     Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 6:41.70 ( 401.70 sec) ASCII
 3347     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 6:41.70 ( 401.70 sec) Binary
 3353    ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 11:10:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3356    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
 3345     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) ASCII
 3347     Time Step No. = 1426 Elapsed Time = 3.652431E+06 days
 3348     Date: 02/14/07 Time: 10:22:18 CPU Time: 0 0: 7:27.48 ( 447.48 sec) Binary
 3353    ****************************************************************************
 3354     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3355     * Completed: 02/14/07 at 10:22:18 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3356    ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 150

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES45_TEST7_V017.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V017]BF2_QB0600_ES47_TEST7_V017.OUT;1
```

BF2_QB0600_ES45_TEST7_V018_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
    3     ** Begun on: 02/14/07 at 11:04:23 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
    3     ** Begun on: 02/14/07 at 10:14:52 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
   62    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_TEST7_V018.INP;2
   62    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
```

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   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.ROT;1
   87     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 17.85 sec = 0.00496 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 1772     CPU Time (this time step) = 0.13 sec = 0.00004 hr
 1773     CPU Time (total for run) = 19.84 sec = 0.00551 hr
 1774     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
 2450     Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:17.86 ( 17.86 sec) ASCII
 2452     Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:04:41 CPU Time: 0 0: 0:17.87 ( 17.87 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 1.852005E-01 days
 2456     Date: 02/14/07 Time: 11:04:43 CPU Time: 0 0: 0:20.32 ( 20.32 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 1.676048E+01 days
 2459     Date: 02/14/07 Time: 11:04:46 CPU Time: 0 0: 0:23.53 ( 23.53 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 9.685600E+02 days
 2462     Date: 02/14/07 Time: 11:04:51 CPU Time: 0 0: 0:28.06 ( 28.06 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 1.090054E+04 days
 2465     Date: 02/14/07 Time: 11:04:57 CPU Time: 0 0: 0:33.92 ( 33.92 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 3.542607E+04 days
 2468     Date: 02/14/07 Time: 11:05:05 CPU Time: 0 0: 0:42.41 ( 42.41 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.655532E+04 days
 2471     Date: 02/14/07 Time: 11:05:11 CPU Time: 0 0: 0:48.21 ( 48.21 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.667264E+04 days
 2474     Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0: 0:50.21 ( 50.21 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.673502E+04 days
 2477     Date: 02/14/07 Time: 11:05:16 CPU Time: 0 0: 0:52.73 ( 52.73 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.849232E+04 days
```

```
2480   Date: 02/14/07 Time: 11:05:20 CPU Time: 0 0: 0:57.10 ( 57.10 sec) Binary
2482   Time Step No. = 320 Elapsed Time = 4.353267E+04 days
2483   Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1: 5.10 ( 65.10 sec) Binary
2485   Time Step No. = 340 Elapsed Time = 8.646290E+04 days
2486   Date: 02/14/07 Time: 11:05:35 CPU Time: 0 0: 1:11.34 ( 71.34 sec) Binary
2488   Time Step No. = 360 Elapsed Time = 1.956099E+05 days
2489   Date: 02/14/07 Time: 11:05:45 CPU Time: 0 0: 1:21.67 ( 81.67 sec) Binary
2491   Time Step No. = 380 Elapsed Time = 2.537997E+05 days
2492   Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:29.77 ( 89.77 sec) Binary
2494   Time Step No. = 400 Elapsed Time = 3.654102E+05 days
2495   Date: 02/14/07 Time: 11:05:59 CPU Time: 0 0: 1:35.29 ( 95.29 sec) Binary
2497   Time Step No. = 420 Elapsed Time = 3.660393E+05 days
2498   Date: 02/14/07 Time: 11:06:03 CPU Time: 0 0: 1:39.94 ( 99.94 sec) Binary
2500   Time Step No. = 440 Elapsed Time = 3.665141E+05 days
2501   Date: 02/14/07 Time: 11:06:05 CPU Time: 0 0: 1:41.65 ( 101.65 sec) Binary
2503   Time Step No. = 460 Elapsed Time = 3.666116E+05 days
2504   Date: 02/14/07 Time: 11:06:07 CPU Time: 0 0: 1:43.50 ( 103.50 sec) Binary
2506   Time Step No. = 480 Elapsed Time = 3.698164E+05 days
2507   Date: 02/14/07 Time: 11:06:11 CPU Time: 0 0: 1:47.61 ( 107.61 sec) Binary
2509   Time Step No. = 500 Elapsed Time = 3.836378E+05 days
2510   Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 1:54.12 ( 114.12 sec) Binary
2512   Time Step No. = 520 Elapsed Time = 4.773464E+05 days
2513   Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 2: 2.31 ( 122.31 sec) Binary
2515   Time Step No. = 540 Elapsed Time = 4.805632E+05 days
2516   Date: 02/14/07 Time: 11:06:31 CPU Time: 0 0: 2: 7.45 ( 127.45 sec) Binary
2518   Time Step No. = 560 Elapsed Time = 6.090050E+05 days
2519   Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 2:13.93 ( 133.93 sec) Binary
2521   Time Step No. = 580 Elapsed Time = 6.642533E+05 days
2522   Date: 02/14/07 Time: 11:06:45 CPU Time: 0 0: 2:21.64 ( 141.64 sec) Binary
2524   Time Step No. = 600 Elapsed Time = 6.660298E+05 days
2525   Date: 02/14/07 Time: 11:06:53 CPU Time: 0 0: 2:28.90 ( 148.90 sec) Binary
2527   Time Step No. = 620 Elapsed Time = 6.750577E+05 days
2528   Date: 02/14/07 Time: 11:06:58 CPU Time: 0 0: 2:34.39 ( 154.39 sec) Binary
2530   Time Step No. = 640 Elapsed Time = 8.117950E+05 days
2531   Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0: 2:40.09 ( 160.09 sec) Binary
2533   Time Step No. = 660 Elapsed Time = 8.733977E+05 days
2534   Date: 02/14/07 Time: 11:07:11 CPU Time: 0 0: 2:47.36 ( 167.36 sec) Binary
2536   Time Step No. = 680 Elapsed Time = 8.853639E+05 days
2537   Date: 02/14/07 Time: 11:07:17 CPU Time: 0 0: 2:53.46 ( 173.46 sec) Binary
2539   Time Step No. = 700 Elapsed Time = 8.877123E+05 days
2540   Date: 02/14/07 Time: 11:07:20 CPU Time: 0 0: 2:56.10 ( 176.10 sec) Binary
2542   Time Step No. = 720 Elapsed Time = 8.965246E+05 days
2543   Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 3: 2.50 ( 182.50 sec) Binary
2545   Time Step No. = 740 Elapsed Time = 9.678193E+05 days
2546   Date: 02/14/07 Time: 11:07:32 CPU Time: 0 0: 3: 8.20 ( 188.20 sec) Binary
2548   Time Step No. = 760 Elapsed Time = 9.824276E+05 days
2549   Date: 02/14/07 Time: 11:07:37 CPU Time: 0 0: 3:13.33 ( 193.33 sec) Binary
2551   Time Step No. = 780 Elapsed Time = 1.079404E+06 days
2552   Date: 02/14/07 Time: 11:07:45 CPU Time: 0 0: 3:20.68 ( 200.68 sec) Binary
2554   Time Step No. = 800 Elapsed Time = 1.220016E+06 days
2555   Date: 02/14/07 Time: 11:07:52 CPU Time: 0 0: 3:28.46 ( 208.46 sec) Binary
2557   Time Step No. = 820 Elapsed Time = 1.358888E+06 days
2558   Date: 02/14/07 Time: 11:07:59 CPU Time: 0 0: 3:35.54 ( 215.54 sec) Binary
2560   Time Step No. = 840 Elapsed Time = 1.367185E+06 days
2561   Date: 02/14/07 Time: 11:08:05 CPU Time: 0 0: 3:41.12 ( 221.12 sec) Binary
2563   Time Step No. = 860 Elapsed Time = 1.592454E+06 days
2564   Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0: 3:46.96 ( 226.96 sec) Binary
2566   Time Step No. = 880 Elapsed Time = 1.607973E+06 days
2567   Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0: 3:55.27 ( 235.27 sec) Binary
2569   Time Step No. = 900 Elapsed Time = 1.611408E+06 days
2570   Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 3:59.92 ( 239.92 sec) Binary
2572   Time Step No. = 920 Elapsed Time = 1.629376E+06 days
2573   Date: 02/14/07 Time: 11:08:29 CPU Time: 0 0: 4: 5.38 ( 245.38 sec) Binary
2575   Time Step No. = 940 Elapsed Time = 1.713757E+06 days
2576   Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0: 4: 9.78 ( 249.78 sec) Binary
2578   Time Step No. = 960 Elapsed Time = 2.091414E+06 days
2579   Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 4:16.17 ( 256.17 sec) Binary
2581   Time Step No. = 980 Elapsed Time = 2.491414E+06 days
2582   Date: 02/14/07 Time: 11:08:45 CPU Time: 0 0: 4:20.85 ( 260.85 sec) Binary
2584   Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
2585   Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 4:28.98 ( 268.98 sec) Binary
2587   Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
2588   Date: 02/14/07 Time: 11:08:58 CPU Time: 0 0: 4:34.09 ( 274.09 sec) Binary
2590   Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
2591   Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 4:39.31 ( 279.31 sec) Binary
2593   Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
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 2594      Date: 02/14/07 Time: 11:09:09 CPU Time: 0 0: 4:45.19 ( 285.19 sec) Binary
 2597      Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 2450      Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) ASCII
 2452      Time Step No. = 126 Elapsed Time = 0.000000E+00 days
 2453      Date: 02/14/07 Time: 10:15:12 CPU Time: 0 0: 0:19.85 ( 19.85 sec) Binary
 2455      Time Step No. = 140 Elapsed Time = 1.852005E-01 days
 2456      Date: 02/14/07 Time: 10:15:15 CPU Time: 0 0: 0:22.75 ( 22.75 sec) Binary
 2458      Time Step No. = 160 Elapsed Time = 1.676048E+01 days
 2459      Date: 02/14/07 Time: 10:15:19 CPU Time: 0 0: 0:26.53 ( 26.53 sec) Binary
 2461      Time Step No. = 180 Elapsed Time = 9.685600E+02 days
 2462      Date: 02/14/07 Time: 10:15:24 CPU Time: 0 0: 0:31.89 ( 31.89 sec) Binary
 2464      Time Step No. = 200 Elapsed Time = 1.090054E+04 days
 2465      Date: 02/14/07 Time: 10:15:31 CPU Time: 0 0: 0:38.77 ( 38.77 sec) Binary
 2467      Time Step No. = 220 Elapsed Time = 3.542607E+04 days
 2468      Date: 02/14/07 Time: 10:15:41 CPU Time: 0 0: 0:48.73 ( 48.73 sec) Binary
 2470      Time Step No. = 240 Elapsed Time = 3.655532E+04 days
 2471      Date: 02/14/07 Time: 10:15:48 CPU Time: 0 0: 0:55.72 ( 55.72 sec) Binary
 2473      Time Step No. = 260 Elapsed Time = 3.667264E+04 days
 2474      Date: 02/14/07 Time: 10:15:51 CPU Time: 0 0: 0:58.16 ( 58.16 sec) Binary
 2476      Time Step No. = 280 Elapsed Time = 3.673502E+04 days
 2477      Date: 02/14/07 Time: 10:15:54 CPU Time: 0 0: 1: 1.23 ( 61.23 sec) Binary
 2479      Time Step No. = 300 Elapsed Time = 3.849232E+04 days
 2480      Date: 02/14/07 Time: 10:15:59 CPU Time: 0 0: 1: 6.47 ( 66.47 sec) Binary
 2482      Time Step No. = 320 Elapsed Time = 4.353267E+04 days
 2483      Date: 02/14/07 Time: 10:16:09 CPU Time: 0 0: 1:15.69 ( 75.69 sec) Binary
 2485      Time Step No. = 340 Elapsed Time = 8.646290E+04 days
 2486      Date: 02/14/07 Time: 10:16:16 CPU Time: 0 0: 1:22.85 ( 82.85 sec) Binary
 2488      Time Step No. = 360 Elapsed Time = 1.956099E+05 days
 2489      Date: 02/14/07 Time: 10:16:27 CPU Time: 0 0: 1:34.60 ( 94.60 sec) Binary
 2491      Time Step No. = 380 Elapsed Time = 2.537997E+05 days
 2492      Date: 02/14/07 Time: 10:16:37 CPU Time: 0 0: 1:43.87 ( 103.87 sec) Binary
 2494      Time Step No. = 400 Elapsed Time = 3.654102E+05 days
 2495      Date: 02/14/07 Time: 10:16:43 CPU Time: 0 0: 1:50.19 ( 110.19 sec) Binary
 2497      Time Step No. = 420 Elapsed Time = 3.660393E+05 days
 2498      Date: 02/14/07 Time: 10:16:48 CPU Time: 0 0: 1:55.53 ( 115.53 sec) Binary
 2500      Time Step No. = 440 Elapsed Time = 3.665141E+05 days
 2501      Date: 02/14/07 Time: 10:16:50 CPU Time: 0 0: 1:57.53 ( 117.53 sec) Binary
 2503      Time Step No. = 460 Elapsed Time = 3.666116E+05 days
 2504      Date: 02/14/07 Time: 10:16:53 CPU Time: 0 0: 1:59.66 ( 119.66 sec) Binary
 2506      Time Step No. = 480 Elapsed Time = 3.698164E+05 days
 2507      Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 2: 4.34 ( 124.34 sec) Binary
 2509      Time Step No. = 500 Elapsed Time = 3.836378E+05 days
 2510      Date: 02/14/07 Time: 10:17:05 CPU Time: 0 0: 2:11.72 ( 131.72 sec) Binary
 2512      Time Step No. = 520 Elapsed Time = 4.773464E+05 days
 2513      Date: 02/14/07 Time: 10:17:14 CPU Time: 0 0: 2:21.09 ( 141.09 sec) Binary
 2515      Time Step No. = 540 Elapsed Time = 4.805632E+05 days
 2516      Date: 02/14/07 Time: 10:17:20 CPU Time: 0 0: 2:26.95 ( 146.95 sec) Binary
 2518      Time Step No. = 560 Elapsed Time = 6.090050E+05 days
 2519      Date: 02/14/07 Time: 10:17:27 CPU Time: 0 0: 2:34.33 ( 154.33 sec) Binary
 2521      Time Step No. = 580 Elapsed Time = 6.642533E+05 days
 2522      Date: 02/14/07 Time: 10:17:36 CPU Time: 0 0: 2:43.10 ( 163.10 sec) Binary
 2524      Time Step No. = 600 Elapsed Time = 6.660298E+05 days
 2525      Date: 02/14/07 Time: 10:17:45 CPU Time: 0 0: 2:51.35 ( 171.35 sec) Binary
 2527      Time Step No. = 620 Elapsed Time = 6.750577E+05 days
 2528      Date: 02/14/07 Time: 10:17:51 CPU Time: 0 0: 2:57.63 ( 177.63 sec) Binary
 2530      Time Step No. = 640 Elapsed Time = 8.117950E+05 days
 2531      Date: 02/14/07 Time: 10:17:57 CPU Time: 0 0: 3: 4.15 ( 184.15 sec) Binary
 2533      Time Step No. = 660 Elapsed Time = 8.733977E+05 days
 2534      Date: 02/14/07 Time: 10:18:06 CPU Time: 0 0: 3:12.64 ( 192.64 sec) Binary
 2536      Time Step No. = 680 Elapsed Time = 8.853639E+05 days
 2537      Date: 02/14/07 Time: 10:18:13 CPU Time: 0 0: 3:20.01 ( 200.01 sec) Binary
 2539      Time Step No. = 700 Elapsed Time = 8.877123E+05 days
 2540      Date: 02/14/07 Time: 10:18:17 CPU Time: 0 0: 3:23.23 ( 203.23 sec) Binary
 2542      Time Step No. = 720 Elapsed Time = 8.965246E+05 days
 2543      Date: 02/14/07 Time: 10:18:24 CPU Time: 0 0: 3:30.91 ( 210.91 sec) Binary
 2545      Time Step No. = 740 Elapsed Time = 9.678193E+05 days
 2546      Date: 02/14/07 Time: 10:18:31 CPU Time: 0 0: 3:37.77 ( 217.77 sec) Binary
 2548      Time Step No. = 760 Elapsed Time = 9.824276E+05 days
 2549      Date: 02/14/07 Time: 10:18:37 CPU Time: 0 0: 3:43.96 ( 223.96 sec) Binary
 2551      Time Step No. = 780 Elapsed Time = 1.079404E+06 days
 2552      Date: 02/14/07 Time: 10:18:46 CPU Time: 0 0: 3:52.82 ( 232.82 sec) Binary
 2554      Time Step No. = 800 Elapsed Time = 1.220016E+06 days
 2555      Date: 02/14/07 Time: 10:18:56 CPU Time: 0 0: 4: 2.14 ( 242.14 sec) Binary
 2557      Time Step No. = 820 Elapsed Time = 1.358888E+06 days
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 2558     Date: 02/14/07 Time: 10:19:04 CPU Time: 0 0: 4:10.66 ( 250.66 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 1.367185E+06 days
 2561     Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 4:17.36 ( 257.36 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 1.592454E+06 days
 2564     Date: 02/14/07 Time: 10:19:18 CPU Time: 0 0: 4:24.37 ( 264.37 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 1.607973E+06 days
 2567     Date: 02/14/07 Time: 10:19:28 CPU Time: 0 0: 4:34.42 ( 274.42 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 1.611408E+06 days
 2570     Date: 02/14/07 Time: 10:19:34 CPU Time: 0 0: 4:40.05 ( 280.05 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 1.629376E+06 days
 2573     Date: 02/14/07 Time: 10:19:40 CPU Time: 0 0: 4:46.63 ( 286.63 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 1.713757E+06 days
 2576     Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4:51.88 ( 291.88 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 2.091414E+06 days
 2579     Date: 02/14/07 Time: 10:19:53 CPU Time: 0 0: 4:59.50 ( 299.50 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 2.491414E+06 days
 2582     Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 5: 5.09 ( 305.09 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 2.635578E+06 days
 2585     Date: 02/14/07 Time: 10:20:09 CPU Time: 0 0: 5:14.88 ( 314.88 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 2.775082E+06 days
 2588     Date: 02/14/07 Time: 10:20:15 CPU Time: 0 0: 5:20.98 ( 320.98 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 3.175082E+06 days
 2591     Date: 02/14/07 Time: 10:20:21 CPU Time: 0 0: 5:27.20 ( 327.20 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 3.575082E+06 days
 2594     Date: 02/14/07 Time: 10:20:28 CPU Time: 0 0: 5:34.26 ( 334.26 sec) Binary
 2597     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
 2613     CPU Time (this time step) = 0.23 sec = 0.00006 hr
 2614     CPU Time (total for run) = 286.12 sec = 0.07948 hr
 2615    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 2613     CPU Time (this time step) = 0.28 sec = 0.00008 hr
 2614     CPU Time (total for run) = 335.38 sec = 0.09316 hr
 2615    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1
 3291     Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 4:46.15 ( 286.15 sec) ASCII
 3293     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3294     Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 4:46.15 ( 286.15 sec) Binary
 3299    ****************************************************************************
 3300     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3301     * Completed: 02/14/07 at 11:09:10 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3302    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
 3291     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.39 ( 335.39 sec) ASCII
 3293     Time Step No. = 1064 Elapsed Time = 3.652431E+06 days
 3294     Date: 02/14/07 Time: 10:20:29 CPU Time: 0 0: 5:35.40 ( 335.40 sec) Binary
 3299    ****************************************************************************
 3300     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3301     * Completed: 02/14/07 at 10:20:29 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3302    ****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 114

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES45_TEST7_V018.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V018]BF2_QB0600_ES47_TEST7_V018.OUT;1
```

BF2_QB0600_ES45_TEST7_V019_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
    3     ** Begun on: 02/14/07 at 11:04:26 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

```
    3     ** Begun on: 02/14/07 at 10:15:39 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_TEST7_V019.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.ROT;1
   87     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.ROT;1
   87     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
 1772     CPU Time (this time step) = 0.11 sec = 0.00003 hr
 1773     CPU Time (total for run) = 27.46 sec = 0.00763 hr
 1774     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 1772     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 1773     CPU Time (total for run) = 32.43 sec = 0.00901 hr
 1774     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
 2450     Date: 02/14/07 Time: 11:04:53 CPU Time: 0 0: 0:27.48 ( 27.48 sec) ASCII
 2452     Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:04:53 CPU Time: 0 0: 0:27.48 ( 27.48 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 11:04:56 CPU Time: 0 0: 0:29.91 ( 29.91 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.919446E-01 days
```

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2459    Date: 02/14/07 Time: 11:04:59 CPU Time: 0 0: 0:32.97 ( 32.97 sec) Binary
2461    Time Step No. = 200 Elapsed Time = 5.981381E+01 days
2462    Date: 02/14/07 Time: 11:05:02 CPU Time: 0 0: 0:36.58 ( 36.58 sec) Binary
2464    Time Step No. = 220 Elapsed Time = 8.084405E+02 days
2465    Date: 02/14/07 Time: 11:05:07 CPU Time: 0 0: 0:41.34 ( 41.34 sec) Binary
2467    Time Step No. = 240 Elapsed Time = 6.597767E+03 days
2468    Date: 02/14/07 Time: 11:05:13 CPU Time: 0 0: 0:47.41 ( 47.41 sec) Binary
2470    Time Step No. = 260 Elapsed Time = 8.104276E+03 days
2471    Date: 02/14/07 Time: 11:05:18 CPU Time: 0 0: 0:51.88 ( 51.88 sec) Binary
2473    Time Step No. = 280 Elapsed Time = 1.013249E+04 days
2474    Date: 02/14/07 Time: 11:05:21 CPU Time: 0 0: 0:55.46 ( 55.46 sec) Binary
2476    Time Step No. = 300 Elapsed Time = 1.796897E+04 days
2477    Date: 02/14/07 Time: 11:05:28 CPU Time: 0 0: 1: 1.64 ( 61.64 sec) Binary
2479    Time Step No. = 320 Elapsed Time = 2.541947E+04 days
2480    Date: 02/14/07 Time: 11:05:32 CPU Time: 0 0: 1: 5.75 ( 65.75 sec) Binary
2482    Time Step No. = 340 Elapsed Time = 3.652431E+04 days
2483    Date: 02/14/07 Time: 11:05:36 CPU Time: 0 0: 1:10.51 ( 70.51 sec) Binary
2485    Time Step No. = 360 Elapsed Time = 3.652446E+04 days
2486    Date: 02/14/07 Time: 11:05:41 CPU Time: 0 0: 1:15.25 ( 75.25 sec) Binary
2488    Time Step No. = 380 Elapsed Time = 3.653794E+04 days
2489    Date: 02/14/07 Time: 11:05:44 CPU Time: 0 0: 1:18.01 ( 78.01 sec) Binary
2491    Time Step No. = 400 Elapsed Time = 3.665472E+04 days
2492    Date: 02/14/07 Time: 11:05:47 CPU Time: 0 0: 1:21.01 ( 81.01 sec) Binary
2494    Time Step No. = 420 Elapsed Time = 3.667516E+04 days
2495    Date: 02/14/07 Time: 11:05:49 CPU Time: 0 0: 1:23.01 ( 83.01 sec) Binary
2497    Time Step No. = 440 Elapsed Time = 3.724922E+04 days
2498    Date: 02/14/07 Time: 11:05:53 CPU Time: 0 0: 1:26.96 ( 86.96 sec) Binary
2500    Time Step No. = 460 Elapsed Time = 5.413046E+04 days
2501    Date: 02/14/07 Time: 11:05:58 CPU Time: 0 0: 1:31.93 ( 91.93 sec) Binary
2503    Time Step No. = 480 Elapsed Time = 9.100708E+04 days
2504    Date: 02/14/07 Time: 11:06:07 CPU Time: 0 0: 1:41.24 ( 101.24 sec) Binary
2506    Time Step No. = 500 Elapsed Time = 1.470830E+05 days
2507    Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 1:47.76 ( 107.76 sec) Binary
2509    Time Step No. = 520 Elapsed Time = 2.204613E+05 days
2510    Date: 02/14/07 Time: 11:06:23 CPU Time: 0 0: 1:57.01 ( 117.01 sec) Binary
2512    Time Step No. = 540 Elapsed Time = 2.691848E+05 days
2513    Date: 02/14/07 Time: 11:06:31 CPU Time: 0 0: 2: 4.60 ( 124.60 sec) Binary
2515    Time Step No. = 560 Elapsed Time = 2.832034E+05 days
2516    Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 2: 9.11 ( 129.11 sec) Binary
2518    Time Step No. = 580 Elapsed Time = 3.061970E+05 days
2519    Date: 02/14/07 Time: 11:06:43 CPU Time: 0 0: 2:16.26 ( 136.26 sec) Binary
2521    Time Step No. = 600 Elapsed Time = 3.110361E+05 days
2522    Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 2:23.98 ( 143.98 sec) Binary
2524    Time Step No. = 620 Elapsed Time = 3.237666E+05 days
2525    Date: 02/14/07 Time: 11:06:59 CPU Time: 0 0: 2:32.63 ( 152.63 sec) Binary
2527    Time Step No. = 640 Elapsed Time = 3.474124E+05 days
2528    Date: 02/14/07 Time: 11:07:04 CPU Time: 0 0: 2:37.36 ( 157.36 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531    Date: 02/14/07 Time: 11:07:10 CPU Time: 0 0: 2:43.48 ( 163.48 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534    Date: 02/14/07 Time: 11:07:16 CPU Time: 0 0: 2:49.09 ( 169.09 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537    Date: 02/14/07 Time: 11:07:21 CPU Time: 0 0: 2:54.12 ( 174.12 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540    Date: 02/14/07 Time: 11:07:26 CPU Time: 0 0: 2:59.60 ( 179.60 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543    Date: 02/14/07 Time: 11:07:28 CPU Time: 0 0: 3: 1.72 ( 181.72 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546    Date: 02/14/07 Time: 11:07:31 CPU Time: 0 0: 3: 4.24 ( 184.24 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549    Date: 02/14/07 Time: 11:07:37 CPU Time: 0 0: 3: 9.97 ( 189.97 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552    Date: 02/14/07 Time: 11:07:43 CPU Time: 0 0: 3:15.97 ( 195.97 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555    Date: 02/14/07 Time: 11:07:48 CPU Time: 0 0: 3:21.40 ( 201.40 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558    Date: 02/14/07 Time: 11:07:56 CPU Time: 0 0: 3:29.11 ( 209.11 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561    Date: 02/14/07 Time: 11:08:03 CPU Time: 0 0: 3:35.92 ( 215.92 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564    Date: 02/14/07 Time: 11:08:07 CPU Time: 0 0: 3:40.23 ( 220.23 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567    Date: 02/14/07 Time: 11:08:11 CPU Time: 0 0: 3:44.38 ( 224.38 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570    Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 3:50.26 ( 230.26 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 3.893569E+05 days
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2573    Date: 02/14/07 Time: 11:08:22 CPU Time: 0 0: 3:54.92 ( 234.92 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576    Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 3:59.03 ( 239.03 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579    Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 4: 6.15 ( 246.15 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582    Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 4:12.55 ( 252.55 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585    Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 4:16.58 ( 256.58 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588    Date: 02/14/07 Time: 11:08:50 CPU Time: 0 0: 4:22.67 ( 262.67 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591    Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 4:25.37 ( 265.37 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594    Date: 02/14/07 Time: 11:08:57 CPU Time: 0 0: 4:30.16 ( 270.16 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597    Date: 02/14/07 Time: 11:09:02 CPU Time: 0 0: 4:34.91 ( 274.91 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600    Date: 02/14/07 Time: 11:09:08 CPU Time: 0 0: 4:40.80 ( 280.80 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603    Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 4:44.17 ( 284.17 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606    Date: 02/14/07 Time: 11:09:17 CPU Time: 0 0: 4:50.12 ( 290.12 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609    Date: 02/14/07 Time: 11:09:23 CPU Time: 0 0: 4:55.97 ( 295.97 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612    Date: 02/14/07 Time: 11:09:28 CPU Time: 0 0: 5: 1.04 ( 301.04 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615    Date: 02/14/07 Time: 11:09:34 CPU Time: 0 0: 5: 6.61 ( 306.61 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618    Date: 02/14/07 Time: 11:09:41 CPU Time: 0 0: 5:13.51 ( 313.51 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621    Date: 02/14/07 Time: 11:09:48 CPU Time: 0 0: 5:20.28 ( 320.28 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624    Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0: 5:23.46 ( 323.46 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627    Date: 02/14/07 Time: 11:09:58 CPU Time: 0 0: 5:30.48 ( 330.48 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630    Date: 02/14/07 Time: 11:10:06 CPU Time: 0 0: 5:39.00 ( 339.00 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633    Date: 02/14/07 Time: 11:10:13 CPU Time: 0 0: 5:45.21 ( 345.21 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636    Date: 02/14/07 Time: 11:10:19 CPU Time: 0 0: 5:51.98 ( 351.98 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639    Date: 02/14/07 Time: 11:10:26 CPU Time: 0 0: 5:58.10 ( 358.10 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
2642    Date: 02/14/07 Time: 11:10:32 CPU Time: 0 0: 6: 4.64 ( 364.64 sec) Binary
2644    Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
2645    Date: 02/14/07 Time: 11:10:39 CPU Time: 0 0: 6:11.77 ( 371.77 sec) Binary
2647    Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
2648    Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 6:19.23 ( 379.23 sec) Binary
2650    Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
2651    Date: 02/14/07 Time: 11:10:55 CPU Time: 0 0: 6:27.55 ( 387.55 sec) Binary
2653    Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
2654    Date: 02/14/07 Time: 11:11:02 CPU Time: 0 0: 6:34.57 ( 394.57 sec) Binary
2656    Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
2657    Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 6:43.12 ( 403.12 sec) Binary
2659    Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
2660    Date: 02/14/07 Time: 11:11:19 CPU Time: 0 0: 6:51.02 ( 411.02 sec) Binary
2662    Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
2663    Date: 02/14/07 Time: 11:11:26 CPU Time: 0 0: 6:58.54 ( 418.54 sec) Binary
2665    Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
2666    Date: 02/14/07 Time: 11:11:34 CPU Time: 0 0: 7: 5.80 ( 425.80 sec) Binary
2668    Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
2669    Date: 02/14/07 Time: 11:11:39 CPU Time: 0 0: 7:11.34 ( 431.34 sec) Binary
2671    Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
2672    Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 7:17.15 ( 437.15 sec) Binary
2674    Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
2675    Date: 02/14/07 Time: 11:11:51 CPU Time: 0 0: 7:22.69 ( 442.69 sec) Binary
2677    Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
2678    Date: 02/14/07 Time: 11:11:59 CPU Time: 0 0: 7:31.49 ( 451.49 sec) Binary
2680    Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
2681    Date: 02/14/07 Time: 11:12:04 CPU Time: 0 0: 7:36.55 ( 456.55 sec) Binary
2683    Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
2684    Date: 02/14/07 Time: 11:12:11 CPU Time: 0 0: 7:43.44 ( 463.44 sec) Binary
2686    Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
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 2687     Date: 02/14/07 Time: 11:12:20 CPU Time: 0 0: 7:51.71 ( 471.71 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
 2690     Date: 02/14/07 Time: 11:12:26 CPU Time: 0 0: 7:57.91 ( 477.91 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
 2693     Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0: 8: 5.23 ( 485.23 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
 2696     Date: 02/14/07 Time: 11:12:39 CPU Time: 0 0: 8:11.54 ( 491.54 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
 2699     Date: 02/14/07 Time: 11:12:45 CPU Time: 0 0: 8:16.73 ( 496.73 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
 2702     Date: 02/14/07 Time: 11:12:51 CPU Time: 0 0: 8:23.27 ( 503.27 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
 2705     Date: 02/14/07 Time: 11:12:58 CPU Time: 0 0: 8:30.29 ( 510.29 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
 2708     Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 8:34.42 ( 514.42 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
 2711     Date: 02/14/07 Time: 11:13:10 CPU Time: 0 0: 8:41.67 ( 521.67 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
 2714     Date: 02/14/07 Time: 11:13:17 CPU Time: 0 0: 8:48.79 ( 528.79 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
 2717     Date: 02/14/07 Time: 11:13:21 CPU Time: 0 0: 8:52.60 ( 532.60 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2450     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.44 ( 32.44 sec) ASCII
 2452     Time Step No. = 156 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 10:16:12 CPU Time: 0 0: 0:32.45 ( 32.45 sec) Binary
 2455     Time Step No. = 160 Elapsed Time = 7.207031E-03 days
 2456     Date: 02/14/07 Time: 10:16:15 CPU Time: 0 0: 0:35.30 ( 35.30 sec) Binary
 2458     Time Step No. = 180 Elapsed Time = 9.919446E-01 days
 2459     Date: 02/14/07 Time: 10:16:18 CPU Time: 0 0: 0:38.93 ( 38.93 sec) Binary
 2461     Time Step No. = 200 Elapsed Time = 5.981381E+01 days
 2462     Date: 02/14/07 Time: 10:16:22 CPU Time: 0 0: 0:43.18 ( 43.18 sec) Binary
 2464     Time Step No. = 220 Elapsed Time = 8.084405E+02 days
 2465     Date: 02/14/07 Time: 10:16:28 CPU Time: 0 0: 0:48.82 ( 48.82 sec) Binary
 2467     Time Step No. = 240 Elapsed Time = 6.597767E+03 days
 2468     Date: 02/14/07 Time: 10:16:35 CPU Time: 0 0: 0:56.00 ( 56.00 sec) Binary
 2470     Time Step No. = 260 Elapsed Time = 8.104276E+03 days
 2471     Date: 02/14/07 Time: 10:16:41 CPU Time: 0 0: 1: 1.30 ( 61.30 sec) Binary
 2473     Time Step No. = 280 Elapsed Time = 1.013249E+04 days
 2474     Date: 02/14/07 Time: 10:16:45 CPU Time: 0 0: 1: 5.55 ( 65.55 sec) Binary
 2476     Time Step No. = 300 Elapsed Time = 1.796897E+04 days
 2477     Date: 02/14/07 Time: 10:16:52 CPU Time: 0 0: 1:12.86 ( 72.86 sec) Binary
 2479     Time Step No. = 320 Elapsed Time = 2.541947E+04 days
 2480     Date: 02/14/07 Time: 10:16:57 CPU Time: 0 0: 1:17.73 ( 77.73 sec) Binary
 2482     Time Step No. = 340 Elapsed Time = 3.652431E+04 days
 2483     Date: 02/14/07 Time: 10:17:03 CPU Time: 0 0: 1:23.38 ( 83.38 sec) Binary
 2485     Time Step No. = 360 Elapsed Time = 3.652446E+04 days
 2486     Date: 02/14/07 Time: 10:17:08 CPU Time: 0 0: 1:28.94 ( 88.94 sec) Binary
 2488     Time Step No. = 380 Elapsed Time = 3.653794E+04 days
 2489     Date: 02/14/07 Time: 10:17:12 CPU Time: 0 0: 1:32.23 ( 92.23 sec) Binary
 2491     Time Step No. = 400 Elapsed Time = 3.665472E+04 days
 2492     Date: 02/14/07 Time: 10:17:15 CPU Time: 0 0: 1:35.80 ( 95.80 sec) Binary
 2494     Time Step No. = 420 Elapsed Time = 3.667516E+04 days
 2495     Date: 02/14/07 Time: 10:17:18 CPU Time: 0 0: 1:38.18 ( 98.18 sec) Binary
 2497     Time Step No. = 440 Elapsed Time = 3.724922E+04 days
 2498     Date: 02/14/07 Time: 10:17:22 CPU Time: 0 0: 1:42.84 ( 102.84 sec) Binary
 2500     Time Step No. = 460 Elapsed Time = 5.413046E+04 days
 2501     Date: 02/14/07 Time: 10:17:28 CPU Time: 0 0: 1:48.71 ( 108.71 sec) Binary
 2503     Time Step No. = 480 Elapsed Time = 9.100708E+04 days
 2504     Date: 02/14/07 Time: 10:17:39 CPU Time: 0 0: 1:59.87 ( 119.87 sec) Binary
 2506     Time Step No. = 500 Elapsed Time = 1.470830E+05 days
 2507     Date: 02/14/07 Time: 10:17:47 CPU Time: 0 0: 2: 7.71 ( 127.71 sec) Binary
 2509     Time Step No. = 520 Elapsed Time = 2.204613E+05 days
 2510     Date: 02/14/07 Time: 10:17:58 CPU Time: 0 0: 2:18.80 ( 138.80 sec) Binary
 2512     Time Step No. = 540 Elapsed Time = 2.691848E+05 days
 2513     Date: 02/14/07 Time: 10:18:07 CPU Time: 0 0: 2:27.70 ( 147.70 sec) Binary
 2515     Time Step No. = 560 Elapsed Time = 2.832034E+05 days
 2516     Date: 02/14/07 Time: 10:18:12 CPU Time: 0 0: 2:32.87 ( 152.87 sec) Binary
 2518     Time Step No. = 580 Elapsed Time = 3.061970E+05 days
 2519     Date: 02/14/07 Time: 10:18:21 CPU Time: 0 0: 2:41.02 ( 161.02 sec) Binary
 2521     Time Step No. = 600 Elapsed Time = 3.110361E+05 days
 2522     Date: 02/14/07 Time: 10:18:29 CPU Time: 0 0: 2:49.87 ( 169.87 sec) Binary
 2524     Time Step No. = 620 Elapsed Time = 3.237666E+05 days
 2525     Date: 02/14/07 Time: 10:18:39 CPU Time: 0 0: 2:59.95 ( 179.95 sec) Binary
 2527     Time Step No. = 640 Elapsed Time = 3.474124E+05 days
```

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2528    Date: 02/14/07 Time: 10:18:45 CPU Time: 0 0: 3: 5.55 ( 185.55 sec) Binary
2530    Time Step No. = 660 Elapsed Time = 3.652525E+05 days
2531    Date: 02/14/07 Time: 10:18:52 CPU Time: 0 0: 3:12.79 ( 192.79 sec) Binary
2533    Time Step No. = 680 Elapsed Time = 3.652719E+05 days
2534    Date: 02/14/07 Time: 10:18:59 CPU Time: 0 0: 3:19.39 ( 199.39 sec) Binary
2536    Time Step No. = 700 Elapsed Time = 3.653962E+05 days
2537    Date: 02/14/07 Time: 10:19:05 CPU Time: 0 0: 3:25.32 ( 205.32 sec) Binary
2539    Time Step No. = 720 Elapsed Time = 3.660809E+05 days
2540    Date: 02/14/07 Time: 10:19:11 CPU Time: 0 0: 3:31.80 ( 211.80 sec) Binary
2542    Time Step No. = 740 Elapsed Time = 3.665917E+05 days
2543    Date: 02/14/07 Time: 10:19:14 CPU Time: 0 0: 3:34.31 ( 214.31 sec) Binary
2545    Time Step No. = 760 Elapsed Time = 3.666891E+05 days
2546    Date: 02/14/07 Time: 10:19:17 CPU Time: 0 0: 3:37.30 ( 217.30 sec) Binary
2548    Time Step No. = 780 Elapsed Time = 3.685642E+05 days
2549    Date: 02/14/07 Time: 10:19:24 CPU Time: 0 0: 3:44.04 ( 224.04 sec) Binary
2551    Time Step No. = 800 Elapsed Time = 3.704468E+05 days
2552    Date: 02/14/07 Time: 10:19:31 CPU Time: 0 0: 3:51.16 ( 231.16 sec) Binary
2554    Time Step No. = 820 Elapsed Time = 3.728343E+05 days
2555    Date: 02/14/07 Time: 10:19:37 CPU Time: 0 0: 3:57.58 ( 237.58 sec) Binary
2557    Time Step No. = 840 Elapsed Time = 3.808843E+05 days
2558    Date: 02/14/07 Time: 10:19:46 CPU Time: 0 0: 4: 6.69 ( 246.69 sec) Binary
2560    Time Step No. = 860 Elapsed Time = 3.829952E+05 days
2561    Date: 02/14/07 Time: 10:19:54 CPU Time: 0 0: 4:14.77 ( 254.77 sec) Binary
2563    Time Step No. = 880 Elapsed Time = 3.831178E+05 days
2564    Date: 02/14/07 Time: 10:19:59 CPU Time: 0 0: 4:19.87 ( 259.87 sec) Binary
2566    Time Step No. = 900 Elapsed Time = 3.834087E+05 days
2567    Date: 02/14/07 Time: 10:20:04 CPU Time: 0 0: 4:24.73 ( 264.73 sec) Binary
2569    Time Step No. = 920 Elapsed Time = 3.859229E+05 days
2570    Date: 02/14/07 Time: 10:20:11 CPU Time: 0 0: 4:31.71 ( 271.71 sec) Binary
2572    Time Step No. = 940 Elapsed Time = 3.893569E+05 days
2573    Date: 02/14/07 Time: 10:20:17 CPU Time: 0 0: 4:37.21 ( 277.21 sec) Binary
2575    Time Step No. = 960 Elapsed Time = 3.936979E+05 days
2576    Date: 02/14/07 Time: 10:20:22 CPU Time: 0 0: 4:42.10 ( 282.10 sec) Binary
2578    Time Step No. = 980 Elapsed Time = 4.144137E+05 days
2579    Date: 02/14/07 Time: 10:20:30 CPU Time: 0 0: 4:50.44 ( 290.44 sec) Binary
2581    Time Step No. = 1000 Elapsed Time = 4.180260E+05 days
2582    Date: 02/14/07 Time: 10:20:38 CPU Time: 0 0: 4:57.88 ( 297.88 sec) Binary
2584    Time Step No. = 1020 Elapsed Time = 4.184906E+05 days
2585    Date: 02/14/07 Time: 10:20:42 CPU Time: 0 0: 5: 2.51 ( 302.51 sec) Binary
2587    Time Step No. = 1040 Elapsed Time = 4.191714E+05 days
2588    Date: 02/14/07 Time: 10:20:50 CPU Time: 0 0: 5: 9.53 ( 309.53 sec) Binary
2590    Time Step No. = 1060 Elapsed Time = 4.192872E+05 days
2591    Date: 02/14/07 Time: 10:20:53 CPU Time: 0 0: 5:12.66 ( 312.66 sec) Binary
2593    Time Step No. = 1080 Elapsed Time = 4.283116E+05 days
2594    Date: 02/14/07 Time: 10:20:58 CPU Time: 0 0: 5:18.22 ( 318.22 sec) Binary
2596    Time Step No. = 1100 Elapsed Time = 4.358680E+05 days
2597    Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 5:23.88 ( 323.88 sec) Binary
2599    Time Step No. = 1120 Elapsed Time = 4.362891E+05 days
2600    Date: 02/14/07 Time: 10:21:11 CPU Time: 0 0: 5:30.96 ( 330.96 sec) Binary
2602    Time Step No. = 1140 Elapsed Time = 4.374193E+05 days
2603    Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 5:34.97 ( 334.97 sec) Binary
2605    Time Step No. = 1160 Elapsed Time = 4.444218E+05 days
2606    Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 5:42.15 ( 342.15 sec) Binary
2608    Time Step No. = 1180 Elapsed Time = 4.554530E+05 days
2609    Date: 02/14/07 Time: 10:21:30 CPU Time: 0 0: 5:49.18 ( 349.18 sec) Binary
2611    Time Step No. = 1200 Elapsed Time = 4.557350E+05 days
2612    Date: 02/14/07 Time: 10:21:36 CPU Time: 0 0: 5:55.30 ( 355.30 sec) Binary
2614    Time Step No. = 1220 Elapsed Time = 4.578442E+05 days
2615    Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 6: 2.07 ( 362.07 sec) Binary
2617    Time Step No. = 1240 Elapsed Time = 4.579509E+05 days
2618    Date: 02/14/07 Time: 10:21:51 CPU Time: 0 0: 6:10.36 ( 370.36 sec) Binary
2620    Time Step No. = 1260 Elapsed Time = 4.584427E+05 days
2621    Date: 02/14/07 Time: 10:21:59 CPU Time: 0 0: 6:18.54 ( 378.54 sec) Binary
2623    Time Step No. = 1280 Elapsed Time = 4.599440E+05 days
2624    Date: 02/14/07 Time: 10:22:03 CPU Time: 0 0: 6:22.33 ( 382.33 sec) Binary
2626    Time Step No. = 1300 Elapsed Time = 4.690229E+05 days
2627    Date: 02/14/07 Time: 10:22:11 CPU Time: 0 0: 6:30.40 ( 390.40 sec) Binary
2629    Time Step No. = 1320 Elapsed Time = 4.748604E+05 days
2630    Date: 02/14/07 Time: 10:22:21 CPU Time: 0 0: 6:40.13 ( 400.13 sec) Binary
2632    Time Step No. = 1340 Elapsed Time = 4.830762E+05 days
2633    Date: 02/14/07 Time: 10:22:28 CPU Time: 0 0: 6:47.48 ( 407.48 sec) Binary
2635    Time Step No. = 1360 Elapsed Time = 5.258526E+05 days
2636    Date: 02/14/07 Time: 10:22:36 CPU Time: 0 0: 6:55.60 ( 415.60 sec) Binary
2638    Time Step No. = 1380 Elapsed Time = 5.892641E+05 days
2639    Date: 02/14/07 Time: 10:22:44 CPU Time: 0 0: 7: 2.96 ( 422.96 sec) Binary
2641    Time Step No. = 1400 Elapsed Time = 6.795923E+05 days
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 2642     Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 7:10.82 ( 430.82 sec) Binary
 2644     Time Step No. = 1420 Elapsed Time = 6.868502E+05 days
 2645     Date: 02/14/07 Time: 10:23:00 CPU Time: 0 0: 7:19.40 ( 439.40 sec) Binary
 2647     Time Step No. = 1440 Elapsed Time = 7.652701E+05 days
 2648     Date: 02/14/07 Time: 10:23:09 CPU Time: 0 0: 7:28.36 ( 448.36 sec) Binary
 2650     Time Step No. = 1460 Elapsed Time = 7.968026E+05 days
 2651     Date: 02/14/07 Time: 10:23:19 CPU Time: 0 0: 7:38.34 ( 458.34 sec) Binary
 2653     Time Step No. = 1480 Elapsed Time = 8.666657E+05 days
 2654     Date: 02/14/07 Time: 10:23:28 CPU Time: 0 0: 7:46.78 ( 466.78 sec) Binary
 2656     Time Step No. = 1500 Elapsed Time = 8.983079E+05 days
 2657     Date: 02/14/07 Time: 10:23:38 CPU Time: 0 0: 7:56.96 ( 476.96 sec) Binary
 2659     Time Step No. = 1520 Elapsed Time = 9.551600E+05 days
 2660     Date: 02/14/07 Time: 10:23:47 CPU Time: 0 0: 8: 6.46 ( 486.46 sec) Binary
 2662     Time Step No. = 1540 Elapsed Time = 9.998592E+05 days
 2663     Date: 02/14/07 Time: 10:23:56 CPU Time: 0 0: 8:15.43 ( 495.43 sec) Binary
 2665     Time Step No. = 1560 Elapsed Time = 1.085834E+06 days
 2666     Date: 02/14/07 Time: 10:24:05 CPU Time: 0 0: 8:24.14 ( 504.14 sec) Binary
 2668     Time Step No. = 1580 Elapsed Time = 1.160714E+06 days
 2669     Date: 02/14/07 Time: 10:24:12 CPU Time: 0 0: 8:30.80 ( 510.80 sec) Binary
 2671     Time Step No. = 1600 Elapsed Time = 1.559652E+06 days
 2672     Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 8:37.83 ( 517.83 sec) Binary
 2674     Time Step No. = 1620 Elapsed Time = 1.959652E+06 days
 2675     Date: 02/14/07 Time: 10:24:25 CPU Time: 0 0: 8:44.48 ( 524.48 sec) Binary
 2677     Time Step No. = 1640 Elapsed Time = 2.090782E+06 days
 2678     Date: 02/14/07 Time: 10:24:36 CPU Time: 0 0: 8:54.75 ( 534.75 sec) Binary
 2680     Time Step No. = 1660 Elapsed Time = 2.163373E+06 days
 2681     Date: 02/14/07 Time: 10:24:41 CPU Time: 0 0: 9: 0.27 ( 540.27 sec) Binary
 2683     Time Step No. = 1680 Elapsed Time = 2.183046E+06 days
 2684     Date: 02/14/07 Time: 10:24:49 CPU Time: 0 0: 9: 7.77 ( 547.77 sec) Binary
 2686     Time Step No. = 1700 Elapsed Time = 2.201300E+06 days
 2687     Date: 02/14/07 Time: 10:24:58 CPU Time: 0 0: 9:16.77 ( 556.77 sec) Binary
 2689     Time Step No. = 1720 Elapsed Time = 2.251091E+06 days
 2690     Date: 02/14/07 Time: 10:25:05 CPU Time: 0 0: 9:23.52 ( 563.52 sec) Binary
 2692     Time Step No. = 1740 Elapsed Time = 2.284094E+06 days
 2693     Date: 02/14/07 Time: 10:25:13 CPU Time: 0 0: 9:31.48 ( 571.48 sec) Binary
 2695     Time Step No. = 1760 Elapsed Time = 2.528019E+06 days
 2696     Date: 02/14/07 Time: 10:25:20 CPU Time: 0 0: 9:38.36 ( 578.36 sec) Binary
 2698     Time Step No. = 1780 Elapsed Time = 2.550069E+06 days
 2699     Date: 02/14/07 Time: 10:25:25 CPU Time: 0 0: 9:44.01 ( 584.01 sec) Binary
 2701     Time Step No. = 1800 Elapsed Time = 2.589298E+06 days
 2702     Date: 02/14/07 Time: 10:25:32 CPU Time: 0 0: 9:51.15 ( 591.15 sec) Binary
 2704     Time Step No. = 1820 Elapsed Time = 2.727802E+06 days
 2705     Date: 02/14/07 Time: 10:25:40 CPU Time: 0 0: 9:58.80 ( 598.80 sec) Binary
 2707     Time Step No. = 1840 Elapsed Time = 2.763509E+06 days
 2708     Date: 02/14/07 Time: 10:25:45 CPU Time: 0 0:10: 3.31 ( 603.31 sec) Binary
 2710     Time Step No. = 1860 Elapsed Time = 2.944745E+06 days
 2711     Date: 02/14/07 Time: 10:25:52 CPU Time: 0 0:10:11.24 ( 611.24 sec) Binary
 2713     Time Step No. = 1880 Elapsed Time = 3.202991E+06 days
 2714     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0:10:19.01 ( 619.01 sec) Binary
 2716     Time Step No. = 1900 Elapsed Time = 3.339934E+06 days
 2717     Date: 02/14/07 Time: 10:26:04 CPU Time: 0 0:10:23.21 ( 623.21 sec) Binary
 2720     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
 2736     CPU Time (this time step) = 0.18 sec = 0.00005 hr
 2737     CPU Time (total for run) = 535.47 sec = 0.14874 hr
 2738     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 2736     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 2737     CPU Time (total for run) = 626.34 sec = 0.17398 hr
 2738     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1
 3414     Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 8:55.48 ( 535.48 sec) ASCII
 3416     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 8:55.49 ( 535.49 sec) Binary
 3422     ***************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 11:13:24 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3425     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
 3414     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) ASCII
```

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 3416     Time Step No. = 1916 Elapsed Time = 3.652431E+06 days
 3417     Date: 02/14/07 Time: 10:26:08 CPU Time: 0 0:10:26.34 ( 626.34 sec) Binary
 3422     *******************************************************************************
 3423     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3424     * Completed: 02/14/07 at 10:26:08 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3425     *******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 196

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES45_TEST7_V019.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V019]BF2_QB0600_ES47_TEST7_V019.OUT;1
```

BF2_QB0600_ES45_TEST7_V020_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
    3     ** Begun on: 02/14/07 at 11:09:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
    3     ** Begun on: 02/14/07 at 10:20:35 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
   62     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_TEST7_V020.INP;2
   62     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_CLOSURE.DAT;1
   67     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_CLOSURE.DAT;1
   67     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   72     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   72     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.SUM;1
   77     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.SUM;1
   77     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.BIN;1
   82     *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.BIN;1
   82     *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
```

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   86     PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.ROT;1
   87     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
   86     PAA:[ANALYSIS.BF.QB0600.ES47.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.ROT;1
   87     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
 1772     CPU Time (this time step) = 0.17 sec = 0.00005 hr
 1773     CPU Time (total for run) = 20.29 sec = 0.00564 hr
 1774     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 1772     CPU Time (this time step) = 0.19 sec = 0.00005 hr
 1773     CPU Time (total for run) = 23.66 sec = 0.00657 hr
 1774     ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
 2450     Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 0:20.31 ( 20.31 sec) ASCII
 2452     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
 2453     Date: 02/14/07 Time: 11:09:37 CPU Time: 0 0: 0:20.31 ( 20.31 sec) Binary
 2455     Time Step No. = 140 Elapsed Time = 2.563388E-02 days
 2456     Date: 02/14/07 Time: 11:09:38 CPU Time: 0 0: 0:20.97 ( 20.97 sec) Binary
 2458     Time Step No. = 160 Elapsed Time = 3.725148E+00 days
 2459     Date: 02/14/07 Time: 11:09:42 CPU Time: 0 0: 0:24.39 ( 24.39 sec) Binary
 2461     Time Step No. = 180 Elapsed Time = 3.246068E+02 days
 2462     Date: 02/14/07 Time: 11:09:45 CPU Time: 0 0: 0:28.10 ( 28.10 sec) Binary
 2464     Time Step No. = 200 Elapsed Time = 3.684633E+03 days
 2465     Date: 02/14/07 Time: 11:09:51 CPU Time: 0 0: 0:34.15 ( 34.15 sec) Binary
 2467     Time Step No. = 220 Elapsed Time = 2.822136E+04 days
 2468     Date: 02/14/07 Time: 11:09:57 CPU Time: 0 0: 0:39.99 ( 39.99 sec) Binary
 2470     Time Step No. = 240 Elapsed Time = 3.652539E+04 days
 2471     Date: 02/14/07 Time: 11:10:07 CPU Time: 0 0: 0:49.81 ( 49.81 sec) Binary
 2473     Time Step No. = 260 Elapsed Time = 3.658477E+04 days
 2474     Date: 02/14/07 Time: 11:10:10 CPU Time: 0 0: 0:53.24 ( 53.24 sec) Binary
 2476     Time Step No. = 280 Elapsed Time = 3.666991E+04 days
 2477     Date: 02/14/07 Time: 11:10:12 CPU Time: 0 0: 0:55.21 ( 55.21 sec) Binary
 2479     Time Step No. = 300 Elapsed Time = 3.679175E+04 days
 2480     Date: 02/14/07 Time: 11:10:15 CPU Time: 0 0: 0:58.19 ( 58.19 sec) Binary
 2482     Time Step No. = 320 Elapsed Time = 3.923507E+04 days
 2483     Date: 02/14/07 Time: 11:10:20 CPU Time: 0 0: 1: 3.07 ( 63.07 sec) Binary
 2485     Time Step No. = 340 Elapsed Time = 4.281917E+04 days
 2486     Date: 02/14/07 Time: 11:10:27 CPU Time: 0 0: 1:10.12 ( 70.12 sec) Binary
 2488     Time Step No. = 360 Elapsed Time = 9.658391E+04 days
 2489     Date: 02/14/07 Time: 11:10:35 CPU Time: 0 0: 1:17.74 ( 77.74 sec) Binary
 2491     Time Step No. = 380 Elapsed Time = 1.853715E+05 days
 2492     Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 1:29.31 ( 89.31 sec) Binary
 2494     Time Step No. = 400 Elapsed Time = 1.865644E+05 days
 2495     Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 1:36.40 ( 96.40 sec) Binary
 2497     Time Step No. = 420 Elapsed Time = 1.885587E+05 days
 2498     Date: 02/14/07 Time: 11:10:59 CPU Time: 0 0: 1:41.73 ( 101.73 sec) Binary
 2500     Time Step No. = 440 Elapsed Time = 2.016355E+05 days
 2501     Date: 02/14/07 Time: 11:11:06 CPU Time: 0 0: 1:49.02 ( 109.02 sec) Binary
 2503     Time Step No. = 460 Elapsed Time = 2.152604E+05 days
 2504     Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 1:59.00 ( 119.00 sec) Binary
 2506     Time Step No. = 480 Elapsed Time = 2.153375E+05 days
 2507     Date: 02/14/07 Time: 11:11:21 CPU Time: 0 0: 2: 3.94 ( 123.94 sec) Binary
 2509     Time Step No. = 500 Elapsed Time = 2.165829E+05 days
 2510     Date: 02/14/07 Time: 11:11:27 CPU Time: 0 0: 2: 9.47 ( 129.47 sec) Binary
 2512     Time Step No. = 520 Elapsed Time = 2.353299E+05 days
 2513     Date: 02/14/07 Time: 11:11:34 CPU Time: 0 0: 2:16.86 ( 136.86 sec) Binary
 2515     Time Step No. = 540 Elapsed Time = 2.520000E+05 days
 2516     Date: 02/14/07 Time: 11:11:42 CPU Time: 0 0: 2:24.47 ( 144.47 sec) Binary
 2518     Time Step No. = 560 Elapsed Time = 2.525213E+05 days
 2519     Date: 02/14/07 Time: 11:11:45 CPU Time: 0 0: 2:27.94 ( 147.94 sec) Binary
 2521     Time Step No. = 580 Elapsed Time = 2.527760E+05 days
 2522     Date: 02/14/07 Time: 11:11:51 CPU Time: 0 0: 2:33.57 ( 153.57 sec) Binary
 2524     Time Step No. = 600 Elapsed Time = 2.541176E+05 days
 2525     Date: 02/14/07 Time: 11:11:55 CPU Time: 0 0: 2:37.95 ( 157.95 sec) Binary
 2527     Time Step No. = 620 Elapsed Time = 2.855709E+05 days
 2528     Date: 02/14/07 Time: 11:12:01 CPU Time: 0 0: 2:43.50 ( 163.50 sec) Binary
 2530     Time Step No. = 640 Elapsed Time = 3.161032E+05 days
 2531     Date: 02/14/07 Time: 11:12:08 CPU Time: 0 0: 2:50.87 ( 170.87 sec) Binary
 2533     Time Step No. = 660 Elapsed Time = 3.380356E+05 days
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 2534     Date: 02/14/07 Time: 11:12:14 CPU Time: 0 0: 2:56.42 ( 176.42 sec) Binary
 2536     Time Step No. = 680 Elapsed Time = 3.652525E+05 days
 2537     Date: 02/14/07 Time: 11:12:18 CPU Time: 0 0: 3: 0.60 ( 180.60 sec) Binary
 2539     Time Step No. = 700 Elapsed Time = 3.653546E+05 days
 2540     Date: 02/14/07 Time: 11:12:23 CPU Time: 0 0: 3: 5.11 ( 185.11 sec) Binary
 2542     Time Step No. = 720 Elapsed Time = 3.662726E+05 days
 2543     Date: 02/14/07 Time: 11:12:29 CPU Time: 0 0: 3:11.44 ( 191.44 sec) Binary
 2545     Time Step No. = 740 Elapsed Time = 3.666103E+05 days
 2546     Date: 02/14/07 Time: 11:12:31 CPU Time: 0 0: 3:13.18 ( 193.18 sec) Binary
 2548     Time Step No. = 760 Elapsed Time = 3.667626E+05 days
 2549     Date: 02/14/07 Time: 11:12:33 CPU Time: 0 0: 3:15.54 ( 195.54 sec) Binary
 2551     Time Step No. = 780 Elapsed Time = 3.675399E+05 days
 2552     Date: 02/14/07 Time: 11:12:39 CPU Time: 0 0: 3:21.18 ( 201.18 sec) Binary
 2554     Time Step No. = 800 Elapsed Time = 3.720878E+05 days
 2555     Date: 02/14/07 Time: 11:12:44 CPU Time: 0 0: 3:26.28 ( 206.28 sec) Binary
 2557     Time Step No. = 820 Elapsed Time = 3.875699E+05 days
 2558     Date: 02/14/07 Time: 11:12:50 CPU Time: 0 0: 3:32.24 ( 212.24 sec) Binary
 2560     Time Step No. = 840 Elapsed Time = 4.462737E+05 days
 2561     Date: 02/14/07 Time: 11:12:57 CPU Time: 0 0: 3:39.14 ( 219.14 sec) Binary
 2563     Time Step No. = 860 Elapsed Time = 5.201137E+05 days
 2564     Date: 02/14/07 Time: 11:13:02 CPU Time: 0 0: 3:44.18 ( 224.18 sec) Binary
 2566     Time Step No. = 880 Elapsed Time = 5.611927E+05 days
 2567     Date: 02/14/07 Time: 11:13:08 CPU Time: 0 0: 3:50.89 ( 230.89 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 6.996660E+05 days
 2570     Date: 02/14/07 Time: 11:13:16 CPU Time: 0 0: 3:58.12 ( 238.12 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.421477E+05 days
 2573     Date: 02/14/07 Time: 11:13:24 CPU Time: 0 0: 4: 5.39 ( 245.39 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 9.138807E+05 days
 2576     Date: 02/14/07 Time: 11:13:31 CPU Time: 0 0: 4:12.40 ( 252.40 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.008458E+06 days
 2579     Date: 02/14/07 Time: 11:13:39 CPU Time: 0 0: 4:20.54 ( 260.54 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.083768E+06 days
 2582     Date: 02/14/07 Time: 11:13:48 CPU Time: 0 0: 4:29.25 ( 269.25 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
 2585     Date: 02/14/07 Time: 11:13:56 CPU Time: 0 0: 4:36.69 ( 276.69 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
 2588     Date: 02/14/07 Time: 11:14:04 CPU Time: 0 0: 4:44.68 ( 284.68 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
 2591     Date: 02/14/07 Time: 11:14:12 CPU Time: 0 0: 4:52.42 ( 292.42 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
 2594     Date: 02/14/07 Time: 11:14:18 CPU Time: 0 0: 4:59.04 ( 299.04 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
 2597     Date: 02/14/07 Time: 11:14:27 CPU Time: 0 0: 5: 7.40 ( 307.40 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
 2600     Date: 02/14/07 Time: 11:14:35 CPU Time: 0 0: 5:15.59 ( 315.59 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
 2603     Date: 02/14/07 Time: 11:14:40 CPU Time: 0 0: 5:20.83 ( 320.83 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
 2606     Date: 02/14/07 Time: 11:14:47 CPU Time: 0 0: 5:27.92 ( 327.92 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
 2609     Date: 02/14/07 Time: 11:14:54 CPU Time: 0 0: 5:34.56 ( 334.56 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
 2612     Date: 02/14/07 Time: 11:15:01 CPU Time: 0 0: 5:42.20 ( 342.20 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
 2615     Date: 02/14/07 Time: 11:15:07 CPU Time: 0 0: 5:47.62 ( 347.62 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
 2618     Date: 02/14/07 Time: 11:15:14 CPU Time: 0 0: 5:55.09 ( 355.09 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
 2621     Date: 02/14/07 Time: 11:15:22 CPU Time: 0 0: 6: 2.41 ( 362.41 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
 2624     Date: 02/14/07 Time: 11:15:29 CPU Time: 0 0: 6: 9.51 ( 369.51 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
 2627     Date: 02/14/07 Time: 11:15:32 CPU Time: 0 0: 6:12.73 ( 372.73 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
 2630     Date: 02/14/07 Time: 11:15:36 CPU Time: 0 0: 6:16.25 ( 376.25 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
 2633     Date: 02/14/07 Time: 11:15:40 CPU Time: 0 0: 6:20.51 ( 380.51 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
 2636     Date: 02/14/07 Time: 11:15:44 CPU Time: 0 0: 6:24.03 ( 384.03 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
 2639     Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.54 ( 387.54 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2450     Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.68 ( 23.68 sec) ASCII
 2452     Time Step No. = 137 Elapsed Time = 0.000000E+00 days
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2453      Date: 02/14/07 Time: 10:20:59 CPU Time: 0 0: 0:23.69 ( 23.69 sec) Binary
2455      Time Step No. = 140 Elapsed Time = 2.563388E-02 days
2456      Date: 02/14/07 Time: 10:21:00 CPU Time: 0 0: 0:24.43 ( 24.43 sec) Binary
2458      Time Step No. = 160 Elapsed Time = 3.725148E+00 days
2459      Date: 02/14/07 Time: 10:21:04 CPU Time: 0 0: 0:28.34 ( 28.34 sec) Binary
2461      Time Step No. = 180 Elapsed Time = 3.246068E+02 days
2462      Date: 02/14/07 Time: 10:21:08 CPU Time: 0 0: 0:32.60 ( 32.60 sec) Binary
2464      Time Step No. = 200 Elapsed Time = 3.684633E+03 days
2465      Date: 02/14/07 Time: 10:21:15 CPU Time: 0 0: 0:39.49 ( 39.49 sec) Binary
2467      Time Step No. = 220 Elapsed Time = 2.822136E+04 days
2468      Date: 02/14/07 Time: 10:21:22 CPU Time: 0 0: 0:46.11 ( 46.11 sec) Binary
2470      Time Step No. = 240 Elapsed Time = 3.652539E+04 days
2471      Date: 02/14/07 Time: 10:21:33 CPU Time: 0 0: 0:57.28 ( 57.28 sec) Binary
2473      Time Step No. = 260 Elapsed Time = 3.658477E+04 days
2474      Date: 02/14/07 Time: 10:21:37 CPU Time: 0 0: 1: 1.10 ( 61.10 sec) Binary
2476      Time Step No. = 280 Elapsed Time = 3.666991E+04 days
2477      Date: 02/14/07 Time: 10:21:39 CPU Time: 0 0: 1: 3.25 ( 63.25 sec) Binary
2479      Time Step No. = 300 Elapsed Time = 3.679175E+04 days
2480      Date: 02/14/07 Time: 10:21:42 CPU Time: 0 0: 1: 6.62 ( 66.62 sec) Binary
2482      Time Step No. = 320 Elapsed Time = 3.923507E+04 days
2483      Date: 02/14/07 Time: 10:21:48 CPU Time: 0 0: 1:12.33 ( 72.33 sec) Binary
2485      Time Step No. = 340 Elapsed Time = 4.281917E+04 days
2486      Date: 02/14/07 Time: 10:21:56 CPU Time: 0 0: 1:20.54 ( 80.54 sec) Binary
2488      Time Step No. = 360 Elapsed Time = 9.658391E+04 days
2489      Date: 02/14/07 Time: 10:22:05 CPU Time: 0 0: 1:29.44 ( 89.44 sec) Binary
2491      Time Step No. = 380 Elapsed Time = 1.853715E+05 days
2492      Date: 02/14/07 Time: 10:22:19 CPU Time: 0 0: 1:42.96 ( 102.96 sec) Binary
2494      Time Step No. = 400 Elapsed Time = 1.865644E+05 days
2495      Date: 02/14/07 Time: 10:22:26 CPU Time: 0 0: 1:50.86 ( 110.86 sec) Binary
2497      Time Step No. = 420 Elapsed Time = 1.885587E+05 days
2498      Date: 02/14/07 Time: 10:22:33 CPU Time: 0 0: 1:56.96 ( 116.96 sec) Binary
2500      Time Step No. = 440 Elapsed Time = 2.016355E+05 days
2501      Date: 02/14/07 Time: 10:22:41 CPU Time: 0 0: 2: 5.23 ( 125.23 sec) Binary
2503      Time Step No. = 460 Elapsed Time = 2.152604E+05 days
2504      Date: 02/14/07 Time: 10:22:52 CPU Time: 0 0: 2:16.43 ( 136.43 sec) Binary
2506      Time Step No. = 480 Elapsed Time = 2.153375E+05 days
2507      Date: 02/14/07 Time: 10:22:58 CPU Time: 0 0: 2:21.93 ( 141.93 sec) Binary
2509      Time Step No. = 500 Elapsed Time = 2.165829E+05 days
2510      Date: 02/14/07 Time: 10:23:04 CPU Time: 0 0: 2:28.17 ( 148.17 sec) Binary
2512      Time Step No. = 520 Elapsed Time = 2.353299E+05 days
2513      Date: 02/14/07 Time: 10:23:12 CPU Time: 0 0: 2:36.50 ( 156.50 sec) Binary
2515      Time Step No. = 540 Elapsed Time = 2.520000E+05 days
2516      Date: 02/14/07 Time: 10:23:21 CPU Time: 0 0: 2:45.12 ( 165.12 sec) Binary
2518      Time Step No. = 560 Elapsed Time = 2.525213E+05 days
2519      Date: 02/14/07 Time: 10:23:25 CPU Time: 0 0: 2:49.07 ( 169.07 sec) Binary
2521      Time Step No. = 580 Elapsed Time = 2.527760E+05 days
2522      Date: 02/14/07 Time: 10:23:31 CPU Time: 0 0: 2:55.42 ( 175.42 sec) Binary
2524      Time Step No. = 600 Elapsed Time = 2.541176E+05 days
2525      Date: 02/14/07 Time: 10:23:36 CPU Time: 0 0: 3: 0.42 ( 180.42 sec) Binary
2527      Time Step No. = 620 Elapsed Time = 2.855709E+05 days
2528      Date: 02/14/07 Time: 10:23:43 CPU Time: 0 0: 3: 6.73 ( 186.73 sec) Binary
2530      Time Step No. = 640 Elapsed Time = 3.161032E+05 days
2531      Date: 02/14/07 Time: 10:23:51 CPU Time: 0 0: 3:15.08 ( 195.08 sec) Binary
2533      Time Step No. = 660 Elapsed Time = 3.380356E+05 days
2534      Date: 02/14/07 Time: 10:23:57 CPU Time: 0 0: 3:21.38 ( 201.38 sec) Binary
2536      Time Step No. = 680 Elapsed Time = 3.652525E+05 days
2537      Date: 02/14/07 Time: 10:24:02 CPU Time: 0 0: 3:26.10 ( 206.10 sec) Binary
2539      Time Step No. = 700 Elapsed Time = 3.653546E+05 days
2540      Date: 02/14/07 Time: 10:24:07 CPU Time: 0 0: 3:31.22 ( 211.22 sec) Binary
2542      Time Step No. = 720 Elapsed Time = 3.662726E+05 days
2543      Date: 02/14/07 Time: 10:24:14 CPU Time: 0 0: 3:38.38 ( 218.38 sec) Binary
2545      Time Step No. = 740 Elapsed Time = 3.666103E+05 days
2546      Date: 02/14/07 Time: 10:24:16 CPU Time: 0 0: 3:40.37 ( 220.37 sec) Binary
2548      Time Step No. = 760 Elapsed Time = 3.667626E+05 days
2549      Date: 02/14/07 Time: 10:24:19 CPU Time: 0 0: 3:43.07 ( 223.07 sec) Binary
2551      Time Step No. = 780 Elapsed Time = 3.675399E+05 days
2552      Date: 02/14/07 Time: 10:24:26 CPU Time: 0 0: 3:49.45 ( 229.45 sec) Binary
2554      Time Step No. = 800 Elapsed Time = 3.720878E+05 days
2555      Date: 02/14/07 Time: 10:24:31 CPU Time: 0 0: 3:55.24 ( 235.24 sec) Binary
2557      Time Step No. = 820 Elapsed Time = 3.875699E+05 days
2558      Date: 02/14/07 Time: 10:24:38 CPU Time: 0 0: 4: 2.00 ( 242.00 sec) Binary
2560      Time Step No. = 840 Elapsed Time = 4.462737E+05 days
2561      Date: 02/14/07 Time: 10:24:46 CPU Time: 0 0: 4: 9.80 ( 249.80 sec) Binary
2563      Time Step No. = 860 Elapsed Time = 5.201137E+05 days
2564      Date: 02/14/07 Time: 10:24:52 CPU Time: 0 0: 4:15.50 ( 255.50 sec) Binary
2566      Time Step No. = 880 Elapsed Time = 5.611927E+05 days
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 2567     Date: 02/14/07 Time: 10:24:59 CPU Time: 0 0: 4:23.10 ( 263.10 sec) Binary
 2569     Time Step No. = 900 Elapsed Time = 6.996660E+05 days
 2570     Date: 02/14/07 Time: 10:25:08 CPU Time: 0 0: 4:31.28 ( 271.28 sec) Binary
 2572     Time Step No. = 920 Elapsed Time = 8.421477E+05 days
 2573     Date: 02/14/07 Time: 10:25:16 CPU Time: 0 0: 4:39.53 ( 279.53 sec) Binary
 2575     Time Step No. = 940 Elapsed Time = 9.138807E+05 days
 2576     Date: 02/14/07 Time: 10:25:24 CPU Time: 0 0: 4:47.51 ( 287.51 sec) Binary
 2578     Time Step No. = 960 Elapsed Time = 1.008458E+06 days
 2579     Date: 02/14/07 Time: 10:25:33 CPU Time: 0 0: 4:56.74 ( 296.74 sec) Binary
 2581     Time Step No. = 980 Elapsed Time = 1.083768E+06 days
 2582     Date: 02/14/07 Time: 10:25:43 CPU Time: 0 0: 5: 6.63 ( 306.63 sec) Binary
 2584     Time Step No. = 1000 Elapsed Time = 1.211114E+06 days
 2585     Date: 02/14/07 Time: 10:25:51 CPU Time: 0 0: 5:15.09 ( 315.09 sec) Binary
 2587     Time Step No. = 1020 Elapsed Time = 1.239729E+06 days
 2588     Date: 02/14/07 Time: 10:26:00 CPU Time: 0 0: 5:24.14 ( 324.14 sec) Binary
 2590     Time Step No. = 1040 Elapsed Time = 1.431910E+06 days
 2591     Date: 02/14/07 Time: 10:26:09 CPU Time: 0 0: 5:32.93 ( 332.93 sec) Binary
 2593     Time Step No. = 1060 Elapsed Time = 1.474052E+06 days
 2594     Date: 02/14/07 Time: 10:26:17 CPU Time: 0 0: 5:40.42 ( 340.42 sec) Binary
 2596     Time Step No. = 1080 Elapsed Time = 1.548433E+06 days
 2597     Date: 02/14/07 Time: 10:26:26 CPU Time: 0 0: 5:49.85 ( 349.85 sec) Binary
 2599     Time Step No. = 1100 Elapsed Time = 1.567154E+06 days
 2600     Date: 02/14/07 Time: 10:26:36 CPU Time: 0 0: 5:59.12 ( 359.12 sec) Binary
 2602     Time Step No. = 1120 Elapsed Time = 1.587156E+06 days
 2603     Date: 02/14/07 Time: 10:26:41 CPU Time: 0 0: 6: 5.05 ( 365.05 sec) Binary
 2605     Time Step No. = 1140 Elapsed Time = 1.602596E+06 days
 2606     Date: 02/14/07 Time: 10:26:50 CPU Time: 0 0: 6:13.07 ( 373.07 sec) Binary
 2608     Time Step No. = 1160 Elapsed Time = 1.673711E+06 days
 2609     Date: 02/14/07 Time: 10:26:57 CPU Time: 0 0: 6:20.57 ( 380.57 sec) Binary
 2611     Time Step No. = 1180 Elapsed Time = 1.708410E+06 days
 2612     Date: 02/14/07 Time: 10:27:06 CPU Time: 0 0: 6:29.18 ( 389.18 sec) Binary
 2614     Time Step No. = 1200 Elapsed Time = 1.782836E+06 days
 2615     Date: 02/14/07 Time: 10:27:12 CPU Time: 0 0: 6:35.31 ( 395.31 sec) Binary
 2617     Time Step No. = 1220 Elapsed Time = 1.826297E+06 days
 2618     Date: 02/14/07 Time: 10:27:20 CPU Time: 0 0: 6:43.74 ( 403.74 sec) Binary
 2620     Time Step No. = 1240 Elapsed Time = 1.930066E+06 days
 2621     Date: 02/14/07 Time: 10:27:29 CPU Time: 0 0: 6:52.44 ( 412.44 sec) Binary
 2623     Time Step No. = 1260 Elapsed Time = 2.048923E+06 days
 2624     Date: 02/14/07 Time: 10:27:37 CPU Time: 0 0: 7: 0.87 ( 420.87 sec) Binary
 2626     Time Step No. = 1280 Elapsed Time = 2.205459E+06 days
 2627     Date: 02/14/07 Time: 10:27:41 CPU Time: 0 0: 7: 4.71 ( 424.71 sec) Binary
 2629     Time Step No. = 1300 Elapsed Time = 2.605459E+06 days
 2630     Date: 02/14/07 Time: 10:27:45 CPU Time: 0 0: 7: 8.91 ( 428.91 sec) Binary
 2632     Time Step No. = 1320 Elapsed Time = 2.884301E+06 days
 2633     Date: 02/14/07 Time: 10:27:50 CPU Time: 0 0: 7:13.99 ( 433.99 sec) Binary
 2635     Time Step No. = 1340 Elapsed Time = 3.231409E+06 days
 2636     Date: 02/14/07 Time: 10:27:55 CPU Time: 0 0: 7:18.18 ( 438.18 sec) Binary
 2638     Time Step No. = 1360 Elapsed Time = 3.631409E+06 days
 2639     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.37 ( 442.37 sec) Binary
 2642     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
 2658     CPU Time (this time step) = 0.12 sec = 0.00003 hr
 2659     CPU Time (total for run) = 387.84 sec = 0.10773 hr
 2660    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 2658     CPU Time (this time step) = 0.14 sec = 0.00004 hr
 2659     CPU Time (total for run) = 442.72 sec = 0.12298 hr
 2660    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1
 3336     Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.86 ( 387.86 sec) ASCII
 3338     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 11:15:47 CPU Time: 0 0: 6:27.86 ( 387.86 sec) Binary
 3344     ******************************************************************************
 3345     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3346     * Completed: 02/14/07 at 11:15:47 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 3347     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES47_TEST7_V020.OUT;1
 3336     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) ASCII
 3338     Time Step No. = 1362 Elapsed Time = 3.652431E+06 days
 3339     Date: 02/14/07 Time: 10:27:59 CPU Time: 0 0: 7:22.73 ( 442.73 sec) Binary
```

```
********************************************************************************
* End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
* Completed: 02/14/07 at 10:27:59 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 144

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST7.V020]BF2_QB0600_ES45_TEST7_V020.OUT;1-
```

A.8 Test Case 8 Files

A.8.1 Test Case 8: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST8_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST8.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test8.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test8.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test8.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test8.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test8.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST8_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST8.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test8.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test8.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test8.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test8.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test8.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST8_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST8.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST8_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test8.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test8.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test8.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test8.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test8.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.8.2 Test Case 8: Input File, BF2_QB0600_TEST8.INP

```
2 grid blocks, 2-phase, constant well bore pressure production
  FILES
  T T T F F
  MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
     1   2   1    1
  TSTART,    TMAX,        MAXSTEPS
   0.0      1000.0        10
  DT_INIT,  DT_MIN,    DT_MAX,    DT_INCR, IAUTODT, TSWITCH
    1.0E+02   1.0E+02   1.0E+06   1.5000E+00  0      1.0000E-02
  TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
     0
  IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
     2    0    0      'SI'      'SI'
  ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
     10
  USER REQUESTED PRINTOUT TIMES
    100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
  BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
     1000
  RESTART PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTRST
     999
  ASCII PRINT FLAGS
  1 1 0 0 0  0 0 0 1 1  0 0 0 0 0  0 1 1 0 0  1 1 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  BINARY PRINT FLAGS
  1 1 0 0 0  0 0 0 1 1  0 0 0 0 0  0 1 1 0 0  1 1 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0
  HISTORY VARIABLE OUTPUT
     0
  MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
  T
  NUMBER OF MONITOR BLOCKS
     2
  MONITOR BLOCK (I,J,K)
     1    1    1
     2    1    1
  GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     0    0    0    0
  GRID DATA CARDS: GRID BLOCK DX'S
  10.0
  GRID DATA CARDS: GRID BLOCK DY'S
  10.0
  GRID DATA CARDS: GRID BLOCK DZ'S
  10.0
  GRID DATA CARDS: IORG, JORG, KORG, DEPTH, THETAX, THETAY, THETAZ
     1    1     1 0.000000E+00 9.000000E+01 0.000000E+00 0.000000E+00
  WELL DATA
   1
   0.0  1
   1 1 1 1
   PROD
   0.  0.  1.E-12  1.0E+06
```

```
DIRCHLET CONDITIONS
 0  F
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
10.0E+06  10.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
0.5  0.5
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
2*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
2*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
2*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENGE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  4.0000E+00   1.0000E-04
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  4.0000E+00   1.0000E-04
FTOL_SAT    FTOL_PRES:  NORMAL RESIDUAL TOLERANCE
  1.0000E-04   1.0000E-04
FTOL_SAT    FTOL_PRES:  RELAXED RESIDUAL TOLERANCE
  1.0000E-04   1.0000E-04
RXN PATH TOLS
  4*1.E-4
SOLVER
LU
ITMAX, IRESETMAX, IJACINT,  SCALING, P_SCALE, LVARSWTCH
  5   40    1    T   1.E7  F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
 40   40    5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  99   10    2   99   99
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
2*1
 #     NAME
 1     WASTE
NWST
1
WASTE INITIAL, FINAL
1  1
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME,  ICWASTE
0.0000   0
POWASTEIC
 0.
SOWASTEIC
 0.
PRESDRZ
 0.
NBORERESET
 0
# LAMBDA        SOR       SGR
1 0.7       0.000000E+00 0.000000E+00
#  SBMIN          PBMIN          PCMAX         PCT_A    PCT_EXP KRP   KPC   KPT
1 5.000000E-02 1.013250E+05 1.000000E+08  0.0     0.0      4     4     0
# PERMX          PERMY          PERMZ         POROSITY      COMPRES
1 1.000000E-13 1.000000E-13 1.000000E-13  5.0E-01       0.0
```

```
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01320E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
0.0         996.629   0      0    4.45000E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
 0.8500E-03  8.92000E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0  0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
1  1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
 0.0   0.0   F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0   0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
 0.0  0.0
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATN, HUMID SMOOTHING, ALPHARXN
 0.0   F  F  50.
CREEP CLOSURE?
 F
RAD DECAY
F
WILL TRANSPORT BE CALCULATED? T or F
F
RXN PATH
F
```

A.8.3 Test Case 8: Output Difference File, BF2_QB0600_ES47_TEST8_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
    4      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
    2      ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3      ** Begun on: 04/12/06 at 14:06:27 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
   62      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   61      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_TEST8_QA0500.INP;2
   62      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
   67      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   66      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_CLOSURE.DAT;1
   67      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   72      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   72      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
   77      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.SUM;1
   77      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
   82      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.BIN;1
   82      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  138      Restart output timestep interval (IPRNTRST) = 999
  140
*******************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  138      Restart output timestep interval (IPRNTRST) =999
  140
*******************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  191      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  192      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  193      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  194      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  195      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  196      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  197      49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  198      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
```

```
51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
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  269     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  270     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  271     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  272     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  274
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  191     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  192     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  193     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  194     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  195     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  196     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  197     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  198     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  199     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  200     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  201     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  202     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  203     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  204     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  205     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  206     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  207     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  208     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  209     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  210     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  211     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  212     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  213     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  214     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  215     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  216     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  217     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  218     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  219     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  220     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  221     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  222     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  223     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  224     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  225     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  226     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  227     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  228     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  229     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  230     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  231     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  232     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  233     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  234     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  235     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  236     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  237     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  238     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  239     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  240     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  241     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  242     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  243     95 0 0 H2OFLOWIN Water inflow rate kg/s
  244     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  245     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  246     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  247     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  248     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  249     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  250     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  251     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  252     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  253     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  254     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  255     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  445     instead of Input IC's for the Cavities
  446     [0=No, 1=Yes] (ICWASTE) = 0
  448     Uniform Cavity Region
  449     Uniform Cavity Region
  451     ----------------------------------------------------------------------------------------------------
------------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  428     instead of Input IC's for the Waste
  429     [0=No, 1=Yes] (ICWASTE) = 0
  431     Uniform Waste Region 1 Startup Pressure (POWASTEIC) = 0.00000E+00 Pa
  432     Uniform Waste Region 1 Startup Brine Satn (SOWASTEIC) = 0.00000E+00
  434     ----------------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  480     TOL = 1.0000E-02
  481     SOCEFFMIN = 1.0000E-03
  483     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  464     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  530     Intrinsic reaction rate constants? (LINTRIN): F
  532     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  511     Reaction rate constants (RK):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  540     MgO hydration reaction rate constants:
  541     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  542     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  544     Gas generation factors for biodegradation reaction:
  545     Waste Area # 1
  546     H2/H2S production (RXH2S) = 0.000000E+00
  547     CO2 production (RXCO2) = 0.000000E+00
  549     Saturation cutoff value (SOCMIN): 0.000000E+00
  551     Stoichiometric coeff's for Rxn 1:
  552     H2 coefficient = 0.000000E+00
  553     H2O coefficient = 0.000000E+00
  554     Fe coefficient = 0.000000E+00
  555     Bio coefficient = 0.000000E+00
  556     Fe(OH)2 coefficient = 0.000000E+00
  557     FeS coefficient = 0.000000E+00
  558     MgO coefficient = 0.000000E+00
  559     Mg(OH)2 coefficient = 0.000000E+00
  560     MgCO3 coefficient = 0.000000E+00
  562     Stoichiometric coeff's for Rxn 2:
  563     H2 coefficient = 0.000000E+00
  564     H2O coefficient = 0.000000E+00
  565     Fe coefficient = 0.000000E+00
  566     Bio coefficient = 0.000000E+00
  567     Fe(OH)2 coefficient = 0.000000E+00
  568     FeS coefficient = 0.000000E+00
  569     MgO coefficient = 0.000000E+00
  570     Mg(OH)2 coefficient = 0.000000E+00
  571     MgCO3 coefficient = 0.000000E+00
  573     Stoichiometric coeff's for Rxn 3:
  574     H2 coefficient = 0.000000E+00
  575     H2O coefficient = 0.000000E+00
  576     Fe coefficient = 0.000000E+00
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  577    Bio coefficient = 0.000000E+00
  578    Fe(OH)2 coefficient = 0.000000E+00
  579    FeS coefficient = 0.000000E+00
  580    MgO coefficient = 0.000000E+00
  581    Mg(OH)2 coefficient = 0.000000E+00
  582    MgCO3 coefficient = 0.000000E+00
  584    Stoichiometric coeff's for Rxn 4:
  585    H2 coefficient = 0.000000E+00
  586    H2O coefficient = 0.000000E+00
  587    Fe coefficient = 0.000000E+00
  588    Bio coefficient = 0.000000E+00
  589    Fe(OH)2 coefficient = 0.000000E+00
  590    FeS coefficient = 0.000000E+00
  591    MgO coefficient = 0.000000E+00
  592    Mg(OH)2 coefficient = 0.000000E+00
  593    MgCO3 coefficient = 0.000000E+00
  595    Stoichiometric coeff's for Rxn 5:
  596    H2 coefficient = 0.000000E+00
  597    H2O coefficient = 0.000000E+00
  598    Fe coefficient = 0.000000E+00
  599    Bio coefficient = 0.000000E+00
  600    Fe(OH)2 coefficient = 0.000000E+00
  601    FeS coefficient = 0.000000E+00
  602    MgO coefficient = 0.000000E+00
  603    Mg(OH)2 coefficient = 0.000000E+00
  604    MgCO3 coefficient = 0.000000E+00
  606    Stoichiometric coeff's for Rxn 6:
  607    H2 coefficient = 0.000000E+00
  608    H2O coefficient = 0.000000E+00
  609    Fe coefficient = 0.000000E+00
  610    Bio coefficient = 0.000000E+00
  611    Fe(OH)2 coefficient = 0.000000E+00
  612    FeS coefficient = 0.000000E+00
  613    MgO coefficient = 0.000000E+00
  614    Mg(OH)2 coefficient = 0.000000E+00
  615    MgCO3 coefficient = 0.000000E+00
  617    Stoichiometric coeff's for Rxn 7:
  618    H2 coefficient = 0.000000E+00
  619    H2O coefficient = 0.000000E+00
  620    Fe coefficient = 0.000000E+00
  621    Bio coefficient = 0.000000E+00
  622    Fe(OH)2 coefficient = 0.000000E+00
  623    FeS coefficient = 0.000000E+00
  624    MgO coefficient = 0.000000E+00
  625    Mg(OH)2 coefficient = 0.000000E+00
  626    MgCO3 coefficient = 0.000000E+00
  628    Wicking term (SATWICK) = 0.000000E+00
  629    Humid rates to be smoothed? (LARXN) = F
  630    Concentration rates to be smoothed? (LARXN2) = F
  631    Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  633    Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  519    Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  520    Gas coefficient = 1.173000E+00
  521    H2O coefficient = 1.654000E+00
  522    Fe coefficient = 1.000000E+00
  524    Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  525    Gas coefficient = 7.677000E-01
  526    H2O coefficient = 0.000000E+00
  527    Bio coefficient = 1.000000E+00
  529    Molecular weights (WM):
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  637    Bio: 2.7023E-02 kg/mol
  639    Molecular weights (WM):
  640    Fe(OH)2: 8.9862E-02 kg/mol
  641    FeS: 8.7900E-02 kg/mol
  642    MgO: 4.0304E-02 kg/mol
  643    Mg(OH)2: 5.8320E-02 kg/mol
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  644     MgCO3: 8.4314E-02 kg/mol
  646     Densities (DEN(1-4)):
  647     Fe: 7.8700E+03 kg/m3
  648     Fe(OH)2: 3.4000E+03 kg/m3
  649     FeS: 4.7000E+03 kg/m3
  650     Bio: 1.1000E+03 kg/m3
  652     Densities (DEN(5-8)):
  653     MgO: 3.6000E+03 kg/m3
  654     Mg(OH)2: 2.3700E+03 kg/m3
  655     MgCO3: 3.0500E+03 kg/m3
  656     SALT: 2.1700E+03 kg/m3
  658     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  533     Bio: 3.0026E-02 kg/mol
  535     Wicking term (SATWICK) = 0.000000E+00
  536     Humid rates to be smoothed? (LARXN) = F
  537     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  539     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  735     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  738    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  616     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  619    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  746     CPU Time (this time step) = 0.03 sec = 0.00001 hr
  747     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  748    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  627     CPU Time (this time step) = 0.02 sec = 0.00001 hr
  628     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  629    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  790     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  792     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  796    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  671     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  673     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  674     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  677    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  805     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  806    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  686     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  687    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  848     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  850     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  851     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  854    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  729     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  731     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  732     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  735    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  862     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  863     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  864    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  743     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  744     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  745    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  906     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  908     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  909     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  912    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  787     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  789     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  790     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  793    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  921     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  922    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  802     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  803    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  964     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  966     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  967     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  970    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  845     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  847     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  848     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  851    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  979     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  980    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  860     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  861    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1022     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1024     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
 1025     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1028    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  903     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  905     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
  906     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  909    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1036     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1037     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1038    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  917     CPU Time (this time step) = 0.01 sec = 0.00000 hr
```

```
  918     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  919    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1080     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1082     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
 1083     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1086    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  961     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  963     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
  964     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  967    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1095     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1096    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
  976     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  977    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1138     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1140     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1141     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1144    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1019     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1021     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1022     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1025    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1153     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1154    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1034     CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1035    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1196     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1198     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1199     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1202    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1077     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1079     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1080     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1083    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1210     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1211     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1212    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1091     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1092     CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1093    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1254     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1256     Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1257     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
```

```
 1260    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1135     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1137     Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1138     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1141    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1269     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1270    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1150     CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1151    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1312     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1314     Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1315     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1320    ****************************************************************************
 1321     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1322     * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1323    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
 1193     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1195     Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1196     Date: 04/12/06 Time: 14:06:30 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1201    ****************************************************************************
 1202     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 1203     * Completed: 04/12/06 at 14:06:30 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 1204    ****************************************************************************
************

Number of difference sections found: 34
Number of difference records found: 244

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_VMS82_V500_ES47_TEST8.OUT;1
```

A.8.4 Test Case 8: Output Difference Files, BF2_QB0600_ES40_TEST8_OUT.DIF and BF2_QB0600_ES45_TEST8_OUT.DIF

BF2_QB0600_ES40_TEST8_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
    3     ** Begun on: 02/14/07 at 08:53:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_TEST8.INP;1
   62    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
   62    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_CLOSURE.DAT;1
   67    ****************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  735     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  738     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  735     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  738     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  746     CPU Time (this time step) = 0.05 sec = 0.00001 hr
  747     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  748     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  746     CPU Time (this time step) = 0.03 sec = 0.00001 hr
  747     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  748     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  790     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  792     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  796     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  790     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  792     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  796     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  805     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  806     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  805     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  806     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
```

```
  848     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  850     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  851     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  854     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  848     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  850     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  851     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  854     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  862     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  863     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  864     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  862     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  863     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  864     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  906     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  908     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  909     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  912     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  906     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  908     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  909     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  912     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  921     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  922     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  921     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  922     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  964     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  966     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  967     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  970     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  964     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  966     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  967     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  970     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
  978     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  979     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  980     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  978     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  979     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  980     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1022     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1024     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
 1025     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1028     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

```
 1022     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1024     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
 1025     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1028    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1037     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1038    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1037     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1038    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1080     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1082     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
 1083     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1086    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1080     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1082     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
 1083     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1086    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1095     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1096    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1095     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1096    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1138     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1140     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1141     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1144    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1138     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1140     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1141     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1144    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1153     CPU Time (total for run) = 0.06 sec = 0.00002 hr
 1154    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1153     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1154    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1196     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
 1198     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1199     Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
 1202    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1196     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1198     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1199     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1202    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1211     CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1212    ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1211    CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1212    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1254    Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1256    Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1257    Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1260    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1254    Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1256    Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1257    Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1260    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1269    CPU Time (total for run) = 0.07 sec = 0.00002 hr
 1270    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1269    CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1270    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1
 1312    Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 1314    Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1315    Date: 02/14/07 Time: 08:53:09 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 1320    ****************************************************************************
 1321    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1322    * Completed: 02/14/07 at 08:53:09 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 1323    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1312    Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1314    Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1315    Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1320    ****************************************************************************
 1321    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1322    * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1323    ****************************************************************************
************

Number of difference sections found: 27
Number of difference records found: 53

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES40_TEST8.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

BF2_QB0600_ES45_TEST8_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
    3    ** Begun on: 02/14/07 at 09:15:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
    3    ** Begun on: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_TEST8.INP;1
   62    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   61    PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_TEST8.INP;1
   62    ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST8]BF2_QB0600_ES47_TEST8.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  735     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  738     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  735     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  738     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  746     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  747     CPU Time (total for run) = 0.01 sec = 0.00000 hr
  748     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  746     CPU Time (this time step) = 0.03 sec = 0.00001 hr
  747     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  748     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  790     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  792     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  796     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  790     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  792     Time Step No. = 1 Elapsed Time = 1.157407E-03 days
  793     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  796     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  805     CPU Time (total for run) = 0.01 sec = 0.00000 hr
  806     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  805     CPU Time (total for run) = 0.03 sec = 0.00001 hr
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  806    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  848     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  850     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  851     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  854    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  848     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  850     Time Step No. = 2 Elapsed Time = 2.314815E-03 days
  851     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  854    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  862     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  863     CPU Time (total for run) = 0.01 sec = 0.00000 hr
  864    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  862     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  863     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  864    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  906     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  908     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  909     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) Binary
  912    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  906     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  908     Time Step No. = 3 Elapsed Time = 3.472222E-03 days
  909     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  912    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  920     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  921     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  922    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  920     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  921     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  922    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  964     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  966     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  967     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  970    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  964     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  966     Time Step No. = 4 Elapsed Time = 4.629630E-03 days
  967     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  970    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
  979     CPU Time (total for run) = 0.02 sec = 0.00001 hr
  980    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
  979     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  980    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1022     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1024     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
```

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 1025     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 1028    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1022     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1024     Time Step No. = 5 Elapsed Time = 5.787037E-03 days
 1025     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1028    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1037     CPU Time (total for run) = 0.02 sec = 0.00001 hr
 1038    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1037     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1038    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1080     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1082     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
 1083     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 1086    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1080     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1082     Time Step No. = 6 Elapsed Time = 6.944444E-03 days
 1083     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1086    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1095     CPU Time (total for run) = 0.02 sec = 0.00001 hr
 1096    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1095     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1096    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1138     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1140     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1141     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 1144    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1138     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
 1140     Time Step No. = 7 Elapsed Time = 8.101852E-03 days
 1141     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
 1144    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1153     CPU Time (total for run) = 0.02 sec = 0.00001 hr
 1154    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1153     CPU Time (total for run) = 0.04 sec = 0.00001 hr
 1154    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1196     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1198     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1199     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 1202    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1196     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1198     Time Step No. = 8 Elapsed Time = 9.259259E-03 days
 1199     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1202    ******************************************************************************
************
************
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1210     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1211     CPU Time (total for run) = 0.02 sec = 0.00001 hr
 1212    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1210     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1211     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1212    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1254     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
 1256     Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1257     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
 1260    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1254     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1256     Time Step No. = 9 Elapsed Time = 1.041667E-02 days
 1257     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1260    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1268     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1269     CPU Time (total for run) = 0.03 sec = 0.00001 hr
 1270    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1268     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1269     CPU Time (total for run) = 0.05 sec = 0.00001 hr
 1270    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1
 1312     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
 1314     Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1315     Date: 02/14/07 Time: 09:15:13 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
 1320    ******************************************************************************
 1321     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1322     * Completed: 02/14/07 at 09:15:13 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 1323    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
 1312     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
 1314     Time Step No. = 10 Elapsed Time = 1.157407E-02 days
 1315     Date: 02/13/07 Time: 14:11:49 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
 1320    ******************************************************************************
 1321     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 1322     * Completed: 02/13/07 at 14:11:49 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 1323    ******************************************************************************
************

Number of difference sections found: 27
Number of difference records found: 55

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES45_TEST8.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST8]BF2_QB0600_ES47_TEST8.OUT;1
```

A.9 Test Case 9 Files

A.9.1 Test Case 9: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST9_HETER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HETER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test9_HETER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test9_HETER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test9_HETER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test9_HETER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test9_HETER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST9_HETER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HETER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test9_HETER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test9_HETER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test9_HETER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test9_HETER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test9_HETER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST9_HETER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HETER.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST9_HETER_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test9_HETER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test9_HETER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test9_HETER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test9_HETER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test9_HETER.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
```

BF2_QB0600_ES40_TEST9_HOMOG_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HOMOG.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test9_HOMOG.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test9_HOMOG.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test9_HOMOG.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test9_HOMOG.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test9_HOMOG.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST9_HOMOG_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HOMOG.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test9_HOMOG.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test9_HOMOG.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test9_HOMOG.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test9_HOMOG.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test9_HOMOG.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST9_HOMOG_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST9_HOMOG.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST9_HOMOG_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
```

```
$    DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test9_HOMOG.OUT
$    DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test9_HOMOG.SUM
$    DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test9_HOMOG.BIN
$    DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test9_HOMOG.RIN
$    DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test9_HOMOG.ROT
$    set noverify

             image name: "BRAGFLO_QB0600"
             image file identification: "P QB0600 6.0"
             image file build identification: ""
             link date/time: 12-FEB-2007 14:57:24.36
             linker identification: "A13-03"

$    show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.9.2 Test Case 9: Input Files, BF2_QB0600_TEST9_HETER.INP and BF2_QB0600_TEST9_HOMOG.INP

BF2_QB0600_TEST9_HETER.INP

```
BF2_TEST9_HETER.INP:  HETEROGENEOUS RESERVOIR CONDITIONS
  SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
  T  T  T  F  F
  MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    1   15   1    1
  TSTART,   TMAX,       MAXSTEPS
   0.0       1.E5        200
  DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   1.0E1     0.99999E1     1.E4       1.2       1      1.0000E-02
  NUMBER OF TIME TO FIX TIME STEP: NDTFIX
    0
  IPRTYPEASC IPRTYPEBIN IPRTYPERST  UNITSI UNITSO
     2          0          0          'SI'   'SI'
  ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
  OUTPUT TIMES
    1.E+04
  BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
    200
  RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    200
  ASCII PRINT FLAGS
  1 1 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 1
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0
  BINARY PRINT FLAGS
  1 1 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 1
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
  0 0 0 0 0   0 0
  NUMBER OF HISTORY VARIABLES;
   0
  MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
  T
  NUMBER OF MONITOR BLOCKS
  1
  MONITOR BLOCK (I,J,K)
     1 1 1
  GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
     0    0    0    0
  GRID DATA CARDS: GRID BLOCK DX'S
   1.0
  GRID DATA CARDS: GRID BLOCK DY'S
   1.0
```

```
GRID DATA CARDS: GRID BLOCK DZ'S
 1.0
DEPTH
 0.0
WELL DATA
 1
 0.0    2
 1  1  1  1
 INJQ
 0.0  0.1  1.0  1.E5
 15 1  1  1
 INJQ
 0.0  -0.1  1.0  1.E5
DIRICHLET CONDITIONS
 F    0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 15*1.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 15*0.999999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 15*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
 15*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 15*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1)  DDEPMAX(2)
 1.000   1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
 1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
EPS_SAT, EPS_PRES:  LOOSE CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
EPSGAS1  EPSGAS2  EPSGAS3  EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
  1.0E-05  1.0E-05  1.0E-05  1.0E-05
LINEAR EQUATION SOLVER TYPE
  LU
ITMAX, IRESETMAX, IJACINT, LSCALE,  P_SCALE, LVARSWTCH
  40   40   1   F  1.0000E+07     F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40   5.0000E-01   1   0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40   40   40   40   40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 1
START TIME FOR MAP 1
 0.0
MATERIAL TYPE GRID MAP
5*1  5*2  5*3
 #     NAME
 1     ROCK1
 2     ROCK2
 3     ROCK3
NWST
 0
NDRZ
 0
NUMRESET
 0
MAT_BOREHOLE
 0
RESET TIME,  ICWASTE
 0.0          0
POWASTEIC
```

```
  0.0
 SOWASTEIC
  0.0
 PRESDRZ
  0.0
 NBORERESET
  0
#  LAMBDA       SOR      SGR
1 7.00E-01      0.0      0.0
2 7.00E-01      0.0      0.0
3 7.00E-01      0.0      0.0
#  SBMIN  POMIN    PCMAX    PCTA      PCTEXP    KRP KPC KPT
1  0.2  1.01325E5 1.0000E8   0.0      0.0E+00    4   1   0
2  0.2  1.01325E5 1.0000E8   0.0      0.0E+00    4   1   0
3  0.2  1.01325E5 1.0000E8   0.0      0.0E+00    4   1   0
# PERMX          PERMY        PERMZ    POROSITY    COMPRES
1 0.250E-11   0.250E-11  0.250E-11 1.0000E-01   1.0E-10
2 1.000E-11   1.000E-11  1.000E-11 1.0000E-01   1.0E-10
3 0.250E-11   0.250E-11  0.250E-11 1.0000E-01   1.0E-10
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL FLAG
  F
 KLINKENBERG EFFECT
  F
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  300.  1.01325E+05
 SALT(WT.%) DEN_BR        KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
  0.0        1.00E+03       0      0       0.0  58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
 1.0000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
  1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
  1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
  1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0   0.0   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  1.0  1.0
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0  0.0
 RATE COEFFICIENTS: RXH2S AND RXCO2
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
```

```
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, LARXN,  ALPHARXN
 0.0000E+00     F  F  5.0000E+01
WILL CREEP CLOSURE BE ACTIVATED?
 F
WILL RADIONUCLIDE DECAY BE CALCULATED?
 F
WILL TRANSPORT BE ACTIVATED?
 F
WILL RADIOLYSIS BE CALCULATED?
 F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

BF2_QB0600_TEST9_HOMOG.INP

```
BF2_TEST9_HOMOG.INP:  HOMOGENEOUS RESERVOIR CONDITIONS
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
T  T  T  F  F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   15    1     1
TSTART,    TMAX,       MAXSTEPS
 0.0       1.E5        200
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
 1.0E1     0.99999E1   1.E4        1.2        1      1.0000E-02
NUMBER OF TIME TO FIX TIME STEP: NDTFIX
  0
IPRTYPEASC IPRTYPEBIN IPRTYPERST  UNITSI UNITSO
   2          0          0          'SI'   'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  1
OUTPUT TIMES
  1.E+04
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  200
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  200
ASCII PRINT FLAGS
1 1 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 1
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
BINARY PRINT FLAGS
1 1 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 1 0 0   0 0 0 0 1
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
NUMBER OF HISTORY VARIABLES;
 0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
1
MONITOR BLOCK (I,J,K)
   1 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
```

```
   0    0    0    0
 GRID DATA CARDS: GRID BLOCK DX'S
 1.0
 GRID DATA CARDS: GRID BLOCK DY'S
 1.0
GRID DATA CARDS: GRID BLOCK DZ'S
 1.0
DEPTH
 0.0
WELL DATA
 1
 0.0    2
 1  1  1  1
 INJQ
 0.0  0.1  1.0  1.E5
 15 1  1  1
 INJQ
 0.0  -0.1  1.0  1.E5
DIRICHLET CONDITIONS
 F    0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 15*1.0E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 15*0.999999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 15*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
 15*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 15*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1)  DDEPMAX(2)
 1.000   1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
 1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
EPS_SAT, EPS_PRES:  LOOSE CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
  1.0000E-06  1.00000E-6
EPSGAS1  EPSGAS2  EPSGAS3  EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
  1.0E-05  1.0E-05  1.0E-05  1.0E-05
LINEAR EQUATION SOLVER TYPE
  LU
ITMAX, IRESETMAX, IJACINT, LSCALE,  P_SCALE, LVARSWTCH
  40   40   1   F  1.0000E+07     F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40   5.0000E-01   1   0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40   40   40   40   40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 1
START TIME FOR MAP 1
 0.0
MATERIAL TYPE GRID MAP
15*1
 #     NAME
 1     ROCK
NWST
 0
NDRZ
 0
NUMRESET
 0
MAT_BOREHOLE
 0
```

```
 RESET TIME,  ICWASTE
  0.0          0
 POWASTEIC
  0.0
 SOWASTEIC
  0.0
 PRESDRZ
  0.0
 NBORERESET
  0
#  LAMBDA       SOR      SGR
1 7.00E-01      0.0      0.0
#  SBMIN  POMIN     PCMAX    PCTA      PCTEXP     KRP KPC KPT
1  0.2  1.01325E5 1.0000E8   0.0       0.0E+00     4   1   0
# PERMX         PERMY       PERMZ    POROSITY    COMPRES
1 1.000E-11   1.000E-11  1.000E-11 1.0000E-01   1.0E-10
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL FLAG
  F
 KLINKENBURG EFFECT
  F
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  300.  1.01325E+05
 SALT(WT.%) DEN_BR        KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
  0.0       1.00E+03        0      0       0.0  58.442468D-03  18.01528D-03
 VISC_BR   VISC_GAS
 1.0000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
  1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
  1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
  1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0   0.0  F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  1.0  1.0
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0  0.0
 RATE COEFFICIENTS: RXH2S AND RXCO2
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
```

```
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, LARXN,  ALPHARXN
 0.0000E+00     F  F  5.0000E+01
WILL CREEP CLOSURE BE ACTIVATED?
 F
WILL RADIONUCLIDE DECAY BE CALCULATED?
 F
WILL TRANSPORT BE ACTIVATED?
 F
WILL RADIOLYSIS BE CALCULATED?
 F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

A.9.3 Test Case 9: Output Difference Files, BF2_QB0600_ES47_TEST9_HETER_OUT.DIF and BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

BF2_QB0600_ES47_TEST9_HETER_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/12/06 at 14:08:55 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_TEST9_HETER_QA0500.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   72     ****************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HETER]BF2_VMS82_V500_ES47_TEST9_HETER.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  129      Restart output timestep interval (IPRNTRST) = 200
  131
****************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  129      Restart output timestep interval (IPRNTRST) =200
  131
****************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  182      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  183      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  184      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  185      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  186      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  187      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  188      49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  189      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  190      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  191      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  192      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  193      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  194      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  195      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  196      57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  197      58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  198      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  199      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  200      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  201      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  202      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  203      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  204      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  205      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  206      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  207      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  208      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  209      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  210      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  211      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  212      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  213      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  214      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  215      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  216      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
```

```
217      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
218      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
219      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
220      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
221      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
222      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
223      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
224      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
225      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
226      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
227      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
228      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
229      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
230      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
231      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
232      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
233      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
234      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
235      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
236      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
237      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
238      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
239      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
240      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
241      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
242      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
243      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
244      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
245      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
246      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
247      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
248      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
249      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
250      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
251      112 0 0 H2OFLOWIN Water inflow rate kg/s
252      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
253      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
254      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
255      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
256      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
257      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
258      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
259      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
260      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
261      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
262      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
263      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 265
************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
 182     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 183     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 184     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 185     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 186     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
 187     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 188     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 189     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 190     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 191     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 192     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 193     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 194     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 195     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 196     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 197     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 198     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 199     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 200     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 201     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
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 202     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 203     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 204     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 205     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 206     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 207     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 208     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 209     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 210     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 211     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 212     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 213     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 214     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 215     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 216     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 217     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 218     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 219     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 220     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 221     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 222     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 223     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 224     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 225     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 226     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 227     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 228     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 229     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 230     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 231     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 232     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 233     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 234     95 0 0 H2OFLOWIN Water inflow rate kg/s
 235     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 236     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 237     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 238     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 239     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 240     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 241     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 242     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 243     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 244     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 245     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 246     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 248
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 437     instead of Input IC's for the Cavities
 438     [0=No, 1=Yes] (ICWASTE) = 0
 440     Uniform Cavity Region
 441     Uniform Cavity Region
 443     ------------------------------------------------------------------------------------------
-----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
 420     instead of Input IC's for the Waste
 421     [0=No, 1=Yes] (ICWASTE) = 0
 423     Uniform Waste Region
 424     Uniform Waste Region
 426     ------------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
 474     TOL = 1.0000E-02
 475     SOCEFFMIN = 1.0000E-03
 477     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
 458     Fracture model will be used? (KFRACTURE): F
************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  576     Intrinsic reaction rate constants? (LINTRIN): F
  578     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  557     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  586     MgO hydration reaction rate constants:
  587     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  588     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  590     Saturation cutoff value (SOCMIN): 0.000000E+00
  592     Stoichiometric coeff's for Rxn 1:
  593     H2 coefficient = 0.000000E+00
  594     H2O coefficient = 0.000000E+00
  595     Fe coefficient = 0.000000E+00
  596     Bio coefficient = 0.000000E+00
  597     Fe(OH)2 coefficient = 0.000000E+00
  598     FeS coefficient = 0.000000E+00
  599     MgO coefficient = 0.000000E+00
  600     Mg(OH)2 coefficient = 0.000000E+00
  601     MgCO3 coefficient = 0.000000E+00
  603     Stoichiometric coeff's for Rxn 2:
  604     H2 coefficient = 0.000000E+00
  605     H2O coefficient = 0.000000E+00
  606     Fe coefficient = 0.000000E+00
  607     Bio coefficient = 0.000000E+00
  608     Fe(OH)2 coefficient = 0.000000E+00
  609     FeS coefficient = 0.000000E+00
  610     MgO coefficient = 0.000000E+00
  611     Mg(OH)2 coefficient = 0.000000E+00
  612     MgCO3 coefficient = 0.000000E+00
  614     Stoichiometric coeff's for Rxn 3:
  615     H2 coefficient = 0.000000E+00
  616     H2O coefficient = 0.000000E+00
  617     Fe coefficient = 0.000000E+00
  618     Bio coefficient = 0.000000E+00
  619     Fe(OH)2 coefficient = 0.000000E+00
  620     FeS coefficient = 0.000000E+00
  621     MgO coefficient = 0.000000E+00
  622     Mg(OH)2 coefficient = 0.000000E+00
  623     MgCO3 coefficient = 0.000000E+00
  625     Stoichiometric coeff's for Rxn 4:
  626     H2 coefficient = 0.000000E+00
  627     H2O coefficient = 0.000000E+00
  628     Fe coefficient = 0.000000E+00
  629     Bio coefficient = 0.000000E+00
  630     Fe(OH)2 coefficient = 0.000000E+00
  631     FeS coefficient = 0.000000E+00
  632     MgO coefficient = 0.000000E+00
  633     Mg(OH)2 coefficient = 0.000000E+00
  634     MgCO3 coefficient = 0.000000E+00
  636     Stoichiometric coeff's for Rxn 5:
  637     H2 coefficient = 0.000000E+00
  638     H2O coefficient = 0.000000E+00
  639     Fe coefficient = 0.000000E+00
  640     Bio coefficient = 0.000000E+00
  641     Fe(OH)2 coefficient = 0.000000E+00
  642     FeS coefficient = 0.000000E+00
  643     MgO coefficient = 0.000000E+00
  644     Mg(OH)2 coefficient = 0.000000E+00
  645     MgCO3 coefficient = 0.000000E+00
  647     Stoichiometric coeff's for Rxn 6:
  648     H2 coefficient = 0.000000E+00
  649     H2O coefficient = 0.000000E+00
  650     Fe coefficient = 0.000000E+00
  651     Bio coefficient = 0.000000E+00
  652     Fe(OH)2 coefficient = 0.000000E+00
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  653     FeS coefficient = 0.000000E+00
  654     MgO coefficient = 0.000000E+00
  655     Mg(OH)2 coefficient = 0.000000E+00
  656     MgCO3 coefficient = 0.000000E+00
  658     Stoichiometric coeff's for Rxn 7:
  659     H2 coefficient = 0.000000E+00
  660     H2O coefficient = 0.000000E+00
  661     Fe coefficient = 0.000000E+00
  662     Bio coefficient = 0.000000E+00
  663     Fe(OH)2 coefficient = 0.000000E+00
  664     FeS coefficient = 0.000000E+00
  665     MgO coefficient = 0.000000E+00
  666     Mg(OH)2 coefficient = 0.000000E+00
  667     MgCO3 coefficient = 0.000000E+00
  669     Wicking term (SATWICK) = 0.000000E+00
  670     Humid rates to be smoothed? (LARXN) = F
  671     Concentration rates to be smoothed? (LARXN2) = F
  672     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  674     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  565     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  566     Gas coefficient = 1.000000E+00
  567     H2O coefficient = 0.000000E+00
  568     Fe coefficient = 1.000000E+00
  570     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  571     Gas coefficient = 1.000000E+00
  572     H2O coefficient = 0.000000E+00
  573     Bio coefficient = 1.000000E+00
  575     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  678     Bio: 2.7023E-02 kg/mol
  680     Molecular weights (WM):
  681     Fe(OH)2: 8.9862E-02 kg/mol
  682     FeS: 8.7900E-02 kg/mol
  683     MgO: 4.0304E-02 kg/mol
  684     Mg(OH)2: 5.8320E-02 kg/mol
  685     MgCO3: 8.4314E-02 kg/mol
  687     Densities (DEN(1-4)):
  688     Fe: 7.8700E+03 kg/m3
  689     Fe(OH)2: 3.4000E+03 kg/m3
  690     FeS: 4.7000E+03 kg/m3
  691     Bio: 1.1000E+03 kg/m3
  693     Densities (DEN(5-8)):
  694     MgO: 3.6000E+03 kg/m3
  695     Mg(OH)2: 2.3700E+03 kg/m3
  696     MgCO3: 3.0500E+03 kg/m3
  697     SALT: 2.1700E+03 kg/m3
  699     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  579     Bio: 3.0026E-02 kg/mol
  581     Wicking term (SATWICK) = 0.000000E+00
  582     Humid rates to be smoothed? (LARXN) = F
  583     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  585     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  777     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  780    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  663     Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  666    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  789     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  790    ******************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  675     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  676     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  825     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  827     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  828     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  831     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  711     Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  713     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  714     Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  717     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  840     CPU Time (total for run) = 0.07 sec = 0.00002 hr
  841     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  726     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  727     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  876     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  878     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  879     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
  884     ****************************************************************************
  885     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  886     * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  887     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
  762     Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  764     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  765     Date: 04/12/06 Time: 14:08:55 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  770     ****************************************************************************
  771     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  772     * Completed: 04/12/06 at 14:08:55 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  773     ****************************************************************************
************

Number of difference sections found: 18
Number of difference records found: 204

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_VMS82_V500_ES47_TEST9_HETER.OUT;1
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BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/12/06 at 14:18:16 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_TEST9_HOMOG_QA0500.INP;2
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   62     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST9HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  129     Restart output timestep interval (IPRNTRST) = 200
  131
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******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  129     Restart output timestep interval (IPRNTRST) =200
  131
**************************************************************************************
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  182     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  183     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  184     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  185     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  186     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  187     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  188     49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  189     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  190     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  191     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  192     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  193     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  194     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  195     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  196     57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  197     58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  198     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  199     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  200     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  201     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  202     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
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203      64 0 0 CONCST Salt concentration -- simple model kg/m^3
204      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
205      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
206      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
207      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
208      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
209      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
210      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
211      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
212      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
213      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
214      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
215      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
216      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
217      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
218      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
219      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
220      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
221      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
222      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
223      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
224      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
225      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
226      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
227      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
228      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
229      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
230      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
231      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
232      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
233      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
234      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
235      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
236      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
237      98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
238      99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
239      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
240      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
241      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
242      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
243      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
244      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
245      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
246      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
247      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
248      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
249      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
250      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
251      112 0 0 H2OFLOWIN Water inflow rate kg/s
252      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
253      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
254      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
255      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
256      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
257      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
258      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
259      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
260      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
261      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
262      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
263      124 0 0 S_MASS( 1,2) Solid mass of isotopa 1 from Waste Region 2 kg
  265
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  182     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  183     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  184     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  185     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
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  186     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  187     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  188     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  189     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  190     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  191     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  192     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  193     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  194     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  195     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  196     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  197     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  198     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  199     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  200     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  201     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  202     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  203     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  204     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  205     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  206     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  207     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  208     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  209     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  210     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  211     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  212     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  213     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  214     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  215     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  216     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  217     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  218     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  219     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  220     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  221     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  222     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  223     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  224     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  225     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  226     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  227     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  228     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  229     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  230     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  231     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  232     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  233     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  234     95 0 0 H2OFLOWIN Water inflow rate kg/s
  235     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  236     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  237     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  238     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  239     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  240     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  241     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  242     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  243     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  244     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  245     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  246     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  248
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  435     instead of Input IC's for the Cavities
  436     [0=No, 1=Yes] (ICWASTE) = 0
  438     Uniform Cavity Region
  439     Uniform Cavity Region
  441     ----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
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  418     instead of Input IC's for the Waste
  419     [0=No, 1=Yes] (ICWASTE) = 0
  421     Uniform Waste Region
  422     Uniform Waste Region
  424     ----------------------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  470     TOL = 1.0000E-02
  471     SOCEFFMIN = 1.0000E-03
  473     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  454     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  572     Intrinsic reaction rate constants? (LINTRIN): F
  574     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  553     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  582     MgO hydration reaction rate constants:
  583     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  584     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  586     Saturation cutoff value (SOCMIN): 0.000000E+00
  588     Stoichiometric coeff's for Rxn 1:
  589     H2 coefficient = 0.000000E+00
  590     H2O coefficient = 0.000000E+00
  591     Fe coefficient = 0.000000E+00
  592     Bio coefficient = 0.000000E+00
  593     Fe(OH)2 coefficient = 0.000000E+00
  594     FeS coefficient = 0.000000E+00
  595     MgO coefficient = 0.000000E+00
  596     Mg(OH)2 coefficient = 0.000000E+00
  597     MgCO3 coefficient = 0.000000E+00
  599     Stoichiometric coeff's for Rxn 2:
  600     H2 coefficient = 0.000000E+00
  601     H2O coefficient = 0.000000E+00
  602     Fe coefficient = 0.000000E+00
  603     Bio coefficient = 0.000000E+00
  604     Fe(OH)2 coefficient = 0.000000E+00
  605     FeS coefficient = 0.000000E+00
  606     MgO coefficient = 0.000000E+00
  607     Mg(OH)2 coefficient = 0.000000E+00
  608     MgCO3 coefficient = 0.000000E+00
  610     Stoichiometric coeff's for Rxn 3:
  611     H2 coefficient = 0.000000E+00
  612     H2O coefficient = 0.000000E+00
  613     Fe coefficient = 0.000000E+00
  614     Bio coefficient = 0.000000E+00
  615     Fe(OH)2 coefficient = 0.000000E+00
  616     FeS coefficient = 0.000000E+00
  617     MgO coefficient = 0.000000E+00
  618     Mg(OH)2 coefficient = 0.000000E+00
  619     MgCO3 coefficient = 0.000000E+00
  621     Stoichiometric coeff's for Rxn 4:
  622     H2 coefficient = 0.000000E+00
  623     H2O coefficient = 0.000000E+00
  624     Fe coefficient = 0.000000E+00
  625     Bio coefficient = 0.000000E+00
  626     Fe(OH)2 coefficient = 0.000000E+00
  627     FeS coefficient = 0.000000E+00
  628     MgO coefficient = 0.000000E+00
  629     Mg(OH)2 coefficient = 0.000000E+00
  630     MgCO3 coefficient = 0.000000E+00
  632     Stoichiometric coeff's for Rxn 5:
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  633     H2 coefficient = 0.000000E+00
  634     H2O coefficient = 0.000000E+00
  635     Fe coefficient = 0.000000E+00
  636     Bio coefficient = 0.000000E+00
  637     Fe(OH)2 coefficient = 0.000000E+00
  638     FeS coefficient = 0.000000E+00
  639     MgO coefficient = 0.000000E+00
  640     Mg(OH)2 coefficient = 0.000000E+00
  641     MgCO3 coefficient = 0.000000E+00
  643     Stoichiometric coeff's for Rxn 6:
  644     H2 coefficient = 0.000000E+00
  645     H2O coefficient = 0.000000E+00
  646     Fe coefficient = 0.000000E+00
  647     Bio coefficient = 0.000000E+00
  648     Fe(OH)2 coefficient = 0.000000E+00
  649     FeS coefficient = 0.000000E+00
  650     MgO coefficient = 0.000000E+00
  651     Mg(OH)2 coefficient = 0.000000E+00
  652     MgCO3 coefficient = 0.000000E+00
  654     Stoichiometric coeff's for Rxn 7:
  655     H2 coefficient = 0.000000E+00
  656     H2O coefficient = 0.000000E+00
  657     Fe coefficient = 0.000000E+00
  658     Bio coefficient = 0.000000E+00
  659     Fe(OH)2 coefficient = 0.000000E+00
  660     FeS coefficient = 0.000000E+00
  661     MgO coefficient = 0.000000E+00
  662     Mg(OH)2 coefficient = 0.000000E+00
  663     MgCO3 coefficient = 0.000000E+00
  665     Wicking term (SATWICK) = 0.000000E+00
  666     Humid rates to be smoothed? (LARXN) = F
  667     Concentration rates to be smoothed? (LARXN2) = F
  668     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  670     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  561     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  562     Gas coefficient = 1.000000E+00
  563     H2O coefficient = 0.000000E+00
  564     Fe coefficient = 1.000000E+00
  566     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  567     Gas coefficient = 1.000000E+00
  568     H2O coefficient = 0.000000E+00
  569     Bio coefficient = 1.000000E+00
  571     Molecular weights (WM):
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  674     Bio: 2.7023E-02 kg/mol
  676     Molecular weights (WM):
  677     Fe(OH)2: 8.9862E-02 kg/mol
  678     FeS: 8.7900E-02 kg/mol
  679     MgO: 4.0304E-02 kg/mol
  680     Mg(OH)2: 5.8320E-02 kg/mol
  681     MgCO3: 8.4314E-02 kg/mol
  683     Densities (DEN(1-4)):
  684     Fe: 7.8700E+03 kg/m3
  685     Fe(OH)2: 3.4000E+03 kg/m3
  686     FeS: 4.7000E+03 kg/m3
  687     Bio: 1.1000E+03 kg/m3
  689     Densities (DEN(5-8)):
  690     MgO: 3.6000E+03 kg/m3
  691     Mg(OH)2: 2.3700E+03 kg/m3
  692     MgCO3: 3.0500E+03 kg/m3
  693     SALT: 2.1700E+03 kg/m3
  695     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  575     Bio: 3.0026E-02 kg/mol
  577     Wicking term (SATWICK) = 0.000000E+00
  578     Humid rates to be smoothed? (LARXN) = F
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  579    Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  581    Will creep closure be used (CLOSURE): F
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  773    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  776    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  659    Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  662    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  785    CPU Time (total for run) = 0.03 sec = 0.00001 hr
  786    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  671    CPU Time (total for run) = 0.06 sec = 0.00002 hr
  672    ******************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  821    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  823    Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  827    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  707    Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  709    Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  710    Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  713    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  835    CPU Time (this time step) = 0.00 sec = 0.00000 hr
  836    CPU Time (total for run) = 0.04 sec = 0.00001 hr
  837    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  721    CPU Time (this time step) = 0.01 sec = 0.00000 hr
  722    CPU Time (total for run) = 0.07 sec = 0.00002 hr
  723    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  872    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  874    Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  875    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  880    ******************************************************************************
  881    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  882    * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  883    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
  758    Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  760    Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  761    Date: 04/12/06 Time: 14:18:16 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
  766    ******************************************************************************
  767    * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  768    * Completed: 04/12/06 at 14:18:16 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  769    ******************************************************************************
************

Number of difference sections found: 18
Number of difference records found: 205

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_VMS82_V500_ES47_TEST9_HOMOG.OUT;1
```

A.9.4 Test Case 9: Output Difference Files, BF2_QB0600_ES40_TEST9_HETER_OUT.DIF, BF2_QB0600_ES45_TEST9_HETER_OUT.DIF, BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF and BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF

BF2_QB0600_ES40_TEST9_HETER_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
    3     ** Begun on: 02/14/07 at 08:53:30 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
  777     Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  780    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  777     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  780    *****************************************************************************
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
  825     Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  827     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  828     Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  831     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  825     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  827     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  828     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  831     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1
  876     Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  878     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  879     Date: 02/14/07 Time: 08:53:30 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
  884     ******************************************************************************
  885     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  886     * Completed: 02/14/07 at 08:53:30 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  887     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  876     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  878     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  879     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
  884     ******************************************************************************
  885     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  886     * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  887     ******************************************************************************
************

Number of difference sections found: 9
Number of difference records found: 16

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES40_TEST9_HETER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
```

BF2_QB0600_ES45_TEST9_HETER_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
    3     ** Begun on: 02/14/07 at 09:15:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
    3     ** Begun on: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_TEST9_HETER.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
```

```
   72      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   72      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.SUM;1
   77      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.SUM;1
   77      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.BIN;1
   82      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.BIN;1
   82      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
  777      Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  780      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  777      Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  780      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
  789      CPU Time (total for run) = 0.05 sec = 0.00001 hr
  790      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  789      CPU Time (total for run) = 0.06 sec = 0.00002 hr
  790      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
  825      Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  827      Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  828      Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  831      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  825      Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  827      Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  828      Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  831      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
  840      CPU Time (total for run) = 0.05 sec = 0.00001 hr
  841      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  840      CPU Time (total for run) = 0.07 sec = 0.00002 hr
  841      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1
  876      Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  878      Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  879      Date: 02/14/07 Time: 09:15:19 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  884      ******************************************************************************
  885      * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  886      * Completed: 02/14/07 at 09:15:19 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  887      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
  876      Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
```

```
  878     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  879     Date: 02/13/07 Time: 14:11:54 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
  884     ******************************************************************************
  885     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  886     * Completed: 02/13/07 at 14:11:54 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  887     ******************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 18

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES45_TEST9_HETER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HETER]BF2_QB0600_ES47_TEST9_HETER.OUT;1
```

BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
    3     ** Begun on: 02/14/07 at 08:53:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
    3     ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
```

```
  773    Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) Binary
  776    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  773    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  776    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
  785    CPU Time (total for run) = 0.07 sec = 0.00002 hr
  786    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  785    CPU Time (total for run) = 0.03 sec = 0.00001 hr
  786    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
  821    Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
  823    Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824    Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
  827    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  821    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  823    Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  827    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
  835    CPU Time (this time step) = 0.01 sec = 0.00000 hr
  836    CPU Time (total for run) = 0.09 sec = 0.00003 hr
  837    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  835    CPU Time (this time step) = 0.00 sec = 0.00000 hr
  836    CPU Time (total for run) = 0.04 sec = 0.00001 hr
  837    *****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1
  872    Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  874    Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  875    Date: 02/14/07 Time: 08:53:24 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) Binary
  880    *****************************************************************************
  881    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  882    * Completed: 02/14/07 at 08:53:24 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  883    *****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  872    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  874    Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  875    Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  880    *****************************************************************************
  881    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  882    * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  883    *****************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 19

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES40_TEST9_HOMOG.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```

BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
    3    ** Begun on: 02/14/07 at 09:15:27 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4    *****************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
    3     ** Begun on: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_TEST9_HOMOG.INP;1
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   72     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.SUM;1
   77     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.SUM;1
   77     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.BIN;1
   82     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.BIN;1
   82     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  773     Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  776     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  773     Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) Binary
  776     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  785     CPU Time (total for run) = 0.05 sec = 0.00001 hr
  786     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  785     CPU Time (total for run) = 0.03 sec = 0.00001 hr
  786     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  821     Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  823     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824     Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  827     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```

```
  821     Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  823     Time Step No. = 30 Elapsed Time = 1.157407E-01 days
  824     Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) Binary
  827     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  836     CPU Time (total for run) = 0.06 sec = 0.00002 hr
  837     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  836     CPU Time (total for run) = 0.04 sec = 0.00001 hr
  837     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1
  872     Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) ASCII
  874     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  875     Date: 02/14/07 Time: 09:15:27 CPU Time: 0 0: 0: 0.06 ( 0.06 sec) Binary
  880     ********************************************************************************
  881     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  882     * Completed: 02/14/07 at 09:15:27 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  883     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
  872     Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) ASCII
  874     Time Step No. = 44 Elapsed Time = 1.157407E+00 days
  875     Date: 02/13/07 Time: 14:12:02 CPU Time: 0 0: 0: 0.04 ( 0.04 sec) Binary
  880     ********************************************************************************
  881     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  882     * Completed: 02/13/07 at 14:12:02 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  883     ********************************************************************************
************

Number of difference sections found: 11
Number of difference records found: 18

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES45_TEST9_HOMOG.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST9_HOMOG]BF2_QB0600_ES47_TEST9_HOMOG.OUT;1
```

A.10 Test Case 10 Files

A.10.1 Test Case 10: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST10_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST10.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES40_Test10.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES40_Test10.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES40_Test10.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES40_Test10.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES40_Test10.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST10_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST10.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES45_Test10.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES45_Test10.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES45_Test10.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES45_Test10.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES45_Test10.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST10_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input     working_dir:BF2_QB0600_TEST10.INP
$   DEFINE bf2_uifold$input  working_dir:BF2_TEST10_QA0500.INP
$   DEFINE bf2_uif$inputcs   working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output    working_dir:BF2_QB0600_ES47_Test10.OUT
$   DEFINE bf2_dbg$summary   working_dir:BF2_QB0600_ES47_Test10.SUM
$   DEFINE bf2_bin$output    working_dir:BF2_QB0600_ES47_Test10.BIN
$   DEFINE bf2_in$restart    working_dir:BF2_QB0600_ES47_Test10.RIN
$   DEFINE bf2_out$restart   working_dir:BF2_QB0600_ES47_Test10.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.10.2 Test Case 10: Input File, BF2_QB0600_TEST10.INP

```
BF2_TEST10.INP:  PRESSURE DRAWDOWN TEST WITH RADIAL GRID AND NO FLOW BOUNDARY
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, BIN RES O, BIN RES IN
T  F  F  F  F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   50   1    1
TSTART,    TMAX,       MAXSTEPS
 0.0       1.E5        400
DT_INIT,   DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
 1.         1.        1.E4       1.2       1      1.0000E-02
NUMBER OF TIME TO FIX TIME STEP: NDTFIX
  0
IPRTYPEASC IPRTYPEBIN IPRTYPERST  UNITSI UNITSO
   0          0          0          'SI'   'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  200
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  200
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  200
ASCII PRINT FLAGS
1 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 1 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
BINARY PRINT FLAGS
1 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0   0 0 0 0 0
0 0 0 0 0   0 0
NUMBER OF HISTORY VARIABLES;
 0
MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
T
NUMBER OF MONITOR BLOCKS
1
MONITOR BLOCK (I,J,K)
   1 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    0    1    0
 GRID DATA CARDS: GRID BLOCK DX'S
1.0000000E-02  2.0679264E-03  2.4955584E-03  3.0116215E-03  3.6344026E-03
4.3859703E-03  5.2929567E-03  6.3875012E-03  7.7083895E-03  9.3024277E-03
1.1226101E-02  1.3547576E-02  1.6349116E-02  1.9729992E-02  2.3810010E-02
2.8733744E-02  3.4675671E-02  4.1846345E-02  5.0499861E-02  6.0942860E-02
7.3545395E-02  8.8754042E-02  1.0710772E-01  1.2925681E-01  1.5598617E-01
1.8824296E-01  2.2717022E-01  2.7414735E-01  3.3083901E-01  3.9925408E-01
4.8181689E-01  5.8145307E-01  7.0169329E-01  8.4679830E-01  1.0219100E+00
1.2332334E+00  1.4882570E+00  1.7960176E+00  2.1674208E+00  2.6156275E+00
3.1565200E+00  3.8092651E+00  4.5969931E+00  5.5476175E+00  6.6948239E+00
8.0792643E+00  9.7499967E+00  1.1766224E+01  1.4199393E+01  1.7135723E+01
 GRID DATA CARDS: GRID BLOCK DY'S
 1.0
GRID DATA CARDS: GRID BLOCK DZ'S
3.1415927E-02  6.9328435E-02  8.3665046E-02  1.0096636E-01  1.2184546E-01
1.4704221E-01  1.7744945E-01  2.1414469E-01  2.5842824E-01  3.1186930E-01
3.7636157E-01  4.5419038E-01  5.4811361E-01  6.6145947E-01  7.9824442E-01
```

```
9.6331549E-01  1.1625220E+00  1.4029230E+00  1.6930372E+00  2.0431448E+00
2.4656522E+00  2.9755309E+00  3.5908488E+00  4.3334099E+00  5.2295271E+00
6.3109548E+00  7.6160139E+00  9.1909495E+00  1.1091570E+01  1.3385225E+01
1.6153191E+01  1.9493552E+01  2.3524676E+01  2.8389405E+01  3.4260126E+01
4.1344867E+01  4.9894682E+01  6.0212535E+01  7.2664044E+01  8.7690433E+01
1.0582417E+02  1.2770783E+02  1.5411687E+02  1.8598710E+02  2.2444787E+02
2.7086203E+02  3.2687431E+02  3.9446951E+02  4.7604290E+02  5.7448507E+02
DEPTH
 10.
WELL DATA
 1
 0.0    1
 1  1  1  1
 INJQ
 0.0  -1.0  1.0  1.E5
DIRICHLET CONDITIONS
 F    0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 50*10.E6
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 50*0.99999999
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
 50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 50*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  6.0000E-01   1.0000E+06
DDEPMAX(1)  DDEPMAX(2)
 1.000   1.0E7
CONVERGENCE TEST FLAG: 0=OR, 1=AND
 1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
EPS_SAT, EPS_PRES:  LOOSE CONVERGENCE CRITERIA
  5.0000E+00   1.0000E-05
FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
  1.0000E-04  1.00000E-4
FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
  1.0000E-04  1.00000E-4
EPSGAS1  EPSGAS2  EPSGAS3  EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
  1.0000E-05  1.0000E-05  1.0000E-05  1.0000E-05
LINEAR EQUATION SOLVER TYPE
  LU
ITMAX, IRESETMAX, IJACINT, LSCALE,  P_SCALE, LVARSWTCH
  40   40   1   F  1.0000E+07     F
IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40   5.0000E-01   1   0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  40   40   40   40   40
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 1
START TIME FOR MAP 1
 0.0
MATERIAL TYPE GRID MAP
2  49*1
 #     NAME
 1     ROCK
 2     WELLBORE
NWST
 0
NDRZ
 0
NUMRESET
 0
MAT_BOREHOLE
 0
RESET TIME,  ICWASTE
 0.0          0
```

```
 POWASTEIC
  0.0
 SOWASTEIC
  0.0
 PRESDRZ
  0.0
 NBORERESET
  0
#  LAMBDA       SOR      SGR
1 7.00E-01      0.0      0.0
2 7.00E-01      0.0      0.0
#  SBMIN  POMIN    PCMAX    PCTA      PCTEXP     KRP KPC KPT
1  0.2  1.01325E5 1.0000E8  0.0        0.0        3   1   0
2  0.2  1.01325E5 1.0000E8  0.0        0.0        3   1   0
# PERMX         PERMY        PERMZ    POROSITY    COMPRES
1 1.8000E-12 1.8000E-12 1.8000E-12 1.0000E-01   1.0E-8
2 1.8000E-08 1.8000E-08 1.8000E-08 1.0000E-01   1.0E-8
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 0
 FRACTURE MODEL FLAG
  F
 KLINKENBURG EFFECT
  F
 GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
 9.79D+00 8.314510D+00
 REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
  300.  1.01325E+05
 SALT(WT.%) DEN_BR        KGSAT  IDGAS  COMPR_BR WMSALT WMH2O
  0.0     1.000E+03        0      0       0.0   58.442468D-03  18.01528D-03
 VISC_BR          VISC_GAS
  1.80000E-03  8.92000E-06
 GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
  1
 GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, O2, NGAS, AND N1GAS
  1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
 GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
 2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
 NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONENT NUMBER (N1GAS)
 1  1
 RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
 43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
 RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
 20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
 RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
 0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
 RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
 43.6D+00  20.47D+05  2.01588D-03
 RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
 0.42747D+00  0.08664D+00
 RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
 BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00   +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00   +0.000D+00  +0.0000D+00
 IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
  1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
  0.0   0.0   F
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  1.0  1.0
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0  0.0
 RATE COEFFICIENTS: RXH2S AND RXCO2
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
```

```
  2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, LARXN,  ALPHARXN
  0.0000E+00     F  F  5.0000E+01
 WILL CREEP CLOSURE BE ACTIVATED?
  F
 WILL RADIONUCLIDE DECAY BE CALCULATED?
  F
 WILL TRANSPORT BE ACTIVATED?
  F
 WILL RADIOLYSIS BE CALCULATED?
  F
 BRAGFLO GAS COMPONENT TRANSPORT MODEL
  F
```

A.10.3 Test Case 10: Output Difference File, BF2_QB0600_ES47_TEST10_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/12/06 at 14:20:21 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
   62     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_TEST10_QA0500.INP;2
   62     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_CLOSURE.DAT;1
   67     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   72     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
   72     ****************************************************************************
************
************
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  118     Restart output timestep interval (IPRNTRST) = 200
  120
******************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  118     Restart output timestep interval (IPRNTRST) =200
  120
******************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  171     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  172     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  173     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  174     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  175     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  176     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  177     49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  178     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  179     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  180     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  181     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  182     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  183     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  184     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  185     57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  186     58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  187     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  188     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  189     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  190     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  191     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  192     64 0 0 CONCST Salt concentration -- simple model kg/m^3
  193     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  194     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  195     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  196     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  197     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  198     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  199     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  200     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  201     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  202     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  203     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  204     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  205     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  206     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  207     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  208     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  209     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  210     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  211     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  212     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  213     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  214     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  215     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  216     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  217     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  218     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  219     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  220     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  221     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  222     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  223     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  224     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  225     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  226     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  227     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
```

```
228      100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
229      101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
230      102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
231      103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
232      104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
233      105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
234      106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
235      107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
236      108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
237      109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
238      110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
239      111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
240      112 0 0 H2OFLOWIN Water inflow rate kg/s
241      113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
242      114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
243      115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
244      116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
245      117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
246      118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
247      119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
248      120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
249      121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
250      122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
251      123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
252      124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 254
************************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  171      43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  172      44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  173      45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  174      46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  175      47 0 0 CONCFE Fe concentration -- simple model kg/m^3
  176      48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  177      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  178      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  179      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  180      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  181      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  182      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  183      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  184      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  185      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  186      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  187      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  188      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  189      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  190      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  191      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  192      64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  193      65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  194      66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  195      67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  196      68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  197      69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  198      70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  199      71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  200      72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  201      73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  202      74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  203      75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  204      76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  205      77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  206      78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  207      79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  208      80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
  209      81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
  210      82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
  211      83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
  212      84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  213      85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
```

```
  214     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  215     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  216     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  217     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  218     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  219     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  220     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  221     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  222     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  223     95 0 0 H2OFLOWIN Water inflow rate kg/s
  224     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  225     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  226     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  227     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  228     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  229     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  230     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  231     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  232     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  233     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  234     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  235     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  237
************************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  444     instead of Input IC's for the Cavities
  445     [0=No, 1=Yes] (ICWASTE) = 0
  447     Uniform Cavity Region
  448     Uniform Cavity Region
  450     ------------------------------------------------------------------------------------------
-----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  427     instead of Input IC's for the Waste
  428     [0=No, 1=Yes] (ICWASTE) = 0
  430     Uniform Waste Region
  431     Uniform Waste Region
  433     ------------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  480     TOL = 1.0000E-02
  481     SOCEFFMIN = 1.0000E-03
  483     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  464     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  582     Intrinsic reaction rate constants? (LINTRIN): F
  584     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  563     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  592     MgO hydration reaction rate constants:
  593     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  594     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  596     Saturation cutoff value (SOCMIN): 0.000000E+00
  598     Stoichiometric coeff's for Rxn 1:
  599     H2 coefficient = 0.000000E+00
  600     H2O coefficient = 0.000000E+00
  601     Fe coefficient = 0.000000E+00
  602     Bio coefficient = 0.000000E+00
  603     Fe(OH)2 coefficient = 0.000000E+00
  604     FeS coefficient = 0.000000E+00
  605     MgO coefficient = 0.000000E+00
```

```
606     Mg(OH)2 coefficient = 0.000000E+00
607     MgCO3 coefficient = 0.000000E+00
609     Stoichiometric coeff's for Rxn 2:
610     H2 coefficient = 0.000000E+00
611     H2O coefficient = 0.000000E+00
612     Fe coefficient = 0.000000E+00
613     Bio coefficient = 0.000000E+00
614     Fe(OH)2 coefficient = 0.000000E+00
615     FeS coefficient = 0.000000E+00
616     MgO coefficient = 0.000000E+00
617     Mg(OH)2 coefficient = 0.000000E+00
618     MgCO3 coefficient = 0.000000E+00
620     Stoichiometric coeff's for Rxn 3:
621     H2 coefficient = 0.000000E+00
622     H2O coefficient = 0.000000E+00
623     Fe coefficient = 0.000000E+00
624     Bio coefficient = 0.000000E+00
625     Fe(OH)2 coefficient = 0.000000E+00
626     FeS coefficient = 0.000000E+00
627     MgO coefficient = 0.000000E+00
628     Mg(OH)2 coefficient = 0.000000E+00
629     MgCO3 coefficient = 0.000000E+00
631     Stoichiometric coeff's for Rxn 4:
632     H2 coefficient = 0.000000E+00
633     H2O coefficient = 0.000000E+00
634     Fe coefficient = 0.000000E+00
635     Bio coefficient = 0.000000E+00
636     Fe(OH)2 coefficient = 0.000000E+00
637     FeS coefficient = 0.000000E+00
638     MgO coefficient = 0.000000E+00
639     Mg(OH)2 coefficient = 0.000000E+00
640     MgCO3 coefficient = 0.000000E+00
642     Stoichiometric coeff's for Rxn 5:
643     H2 coefficient = 0.000000E+00
644     H2O coefficient = 0.000000E+00
645     Fe coefficient = 0.000000E+00
646     Bio coefficient = 0.000000E+00
647     Fe(OH)2 coefficient = 0.000000E+00
648     FeS coefficient = 0.000000E+00
649     MgO coefficient = 0.000000E+00
650     Mg(OH)2 coefficient = 0.000000E+00
651     MgCO3 coefficient = 0.000000E+00
653     Stoichiometric coeff's for Rxn 6:
654     H2 coefficient = 0.000000E+00
655     H2O coefficient = 0.000000E+00
656     Fe coefficient = 0.000000E+00
657     Bio coefficient = 0.000000E+00
658     Fe(OH)2 coefficient = 0.000000E+00
659     FeS coefficient = 0.000000E+00
660     MgO coefficient = 0.000000E+00
661     Mg(OH)2 coefficient = 0.000000E+00
662     MgCO3 coefficient = 0.000000E+00
664     Stoichiometric coeff's for Rxn 7:
665     H2 coefficient = 0.000000E+00
666     H2O coefficient = 0.000000E+00
667     Fe coefficient = 0.000000E+00
668     Bio coefficient = 0.000000E+00
669     Fe(OH)2 coefficient = 0.000000E+00
670     FeS coefficient = 0.000000E+00
671     MgO coefficient = 0.000000E+00
672     Mg(OH)2 coefficient = 0.000000E+00
673     MgCO3 coefficient = 0.000000E+00
675     Wicking term (SATWICK) = 0.000000E+00
676     Humid rates to be smoothed? (LARXN) = F
677     Concentration rates to be smoothed? (LARXN2) = F
678     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
680     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
571     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
```

```
  572     Gas coefficient = 1.000000E+00
  573     H2O coefficient = 0.000000E+00
  574     Fe coefficient = 1.000000E+00
  576     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  577     Gas coefficient = 1.000000E+00
  578     H2O coefficient = 0.000000E+00
  579     Bio coefficient = 1.000000E+00
  581     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  684     Bio: 2.7023E-02 kg/mol
  686     Molecular weights (WM):
  687     Fe(OH)2: 8.9862E-02 kg/mol
  688     FeS: 8.7900E-02 kg/mol
  689     MgO: 4.0304E-02 kg/mol
  690     Mg(OH)2: 5.8320E-02 kg/mol
  691     MgCO3: 8.4314E-02 kg/mol
  693     Densities (DEN(1-4)):
  694     Fe: 7.8700E+03 kg/m3
  695     Fe(OH)2: 3.4000E+03 kg/m3
  696     FeS: 4.7000E+03 kg/m3
  697     Bio: 1.1000E+03 kg/m3
  699     Densities (DEN(5-8)):
  700     MgO: 3.6000E+03 kg/m3
  701     Mg(OH)2: 2.3700E+03 kg/m3
  702     MgCO3: 3.0500E+03 kg/m3
  703     SALT: 2.1700E+03 kg/m3
  705     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  585     Bio: 3.0026E-02 kg/mol
  587     Wicking term (SATWICK) = 0.000000E+00
  588     Humid rates to be smoothed? (LARXN) = F
  589     Humid rate smoothing factor (ALPHARXN) = 5.000000E+01
  591     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  818     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  821    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  704     Date: 04/12/06 Time: 14:20:21 CPU Time: 0 0: 0: 0.03 ( 0.03 sec) ASCII
  707    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  830     CPU Time (total for run) = 0.09 sec = 0.00003 hr
  831    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  716     CPU Time (total for run) = 0.11 sec = 0.00003 hr
  717    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  857     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  862    *******************************************************************************
  863     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  864     * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  865    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
  743     Date: 04/12/06 Time: 14:20:22 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
  748    *******************************************************************************
  749     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  750     * Completed: 04/12/06 at 14:20:22 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  751    *******************************************************************************
************

Number of difference sections found: 14
Number of difference records found: 196
```

```
DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_VMS82_V500_ES47_TEST10.OUT;1
```

A.10.4 Test Case 10: Output Difference Files, BF2_QB0600_ES40_TEST10_OUT.DIF and BF2_QB0600_ES45_TEST10_OUT.DIF

BF2_QB0600_ES40_TEST10_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
    3     ** Begun on: 02/14/07 at 08:53:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    3     ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_TEST10.INP;1
   62     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
   62     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
   67     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
   72     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   72     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  818     Date: 02/14/07 Time: 08:53:37 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  821    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  818     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  821    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  830     CPU Time (total for run) = 0.15 sec = 0.00004 hr
  831    *********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  830     CPU Time (total for run) = 0.09 sec = 0.00003 hr
  831    *********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1
  857     Date: 02/14/07 Time: 08:53:37 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) ASCII
  862     ********************************************************************************
  863     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  864     * Completed: 02/14/07 at 08:53:37 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
  865     ********************************************************************************
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   857     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
   862     ***************************************************************************
   863     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
   864     * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
   865     ***************************************************************************
************

Number of difference sections found: 7
Number of difference records found: 10

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10_OUT.DIF;1-
     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES40_TEST10.OUT;1-
     PAA:[ANALYSIS.BF.QB0600.ES40.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
```

BF2_QB0600_ES45_TEST10_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
     3     ** Begun on: 02/14/07 at 09:15:32 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
     4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
     3     ** Begun on: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
     4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
    61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_TEST10.INP;1
    62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_TEST10.INP;1
    62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
    66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_CLOSURE.DAT;1
    67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_CLOSURE.DAT;1
    67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
    71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
    72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
    72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
   818     Date: 02/14/07 Time: 09:15:32 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
   821     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   818     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
   821     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
   830     CPU Time (total for run) = 0.07 sec = 0.00002 hr
   831     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
   830     CPU Time (total for run) = 0.09 sec = 0.00003 hr
   831     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1
```

```
  857     Date: 02/14/07 Time: 09:15:32 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
  862     ******************************************************************************
  863     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  864     * Completed: 02/14/07 at 09:15:32 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
  865     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
  857     Date: 02/13/07 Time: 14:12:04 CPU Time: 0 0: 0: 0.09 ( 0.09 sec) ASCII
  862     ******************************************************************************
  863     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  864     * Completed: 02/13/07 at 14:12:04 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  865     ******************************************************************************
************

Number of difference sections found: 7
Number of difference records found: 10

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES45_TEST10.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST10]BF2_QB0600_ES47_TEST10.OUT;1
```

A.11 Test Case 11 Files

A.11.1 Test Case 11: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST11_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST11.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test11.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test11.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test11.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test11.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test11.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST11_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST11.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test11.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test11.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test11.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test11.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test11.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST11_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST11.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST11_DENNEW_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test11.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test11.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test11.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test11.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test11.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.11.2 Test Case 11: Input File, BF2_QB0600_TEST11.INP

```
     2-D Single phase water (Alex's problem)
 FILES (ASCII, BINARY, SUMMARY, RESTART INPUT, RESTART OUTPUT)
 T F T F F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    1   50   1    1
 TSTART,    TMAX,       MAXSTEPS
  0.0      1.0E+6       2000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   1.0E+00   1.0E+00   10000.   1.2000E+00  1     1.0000E-02
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    0
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2     0     0      'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    3
 USER REQUESTED PRINTOUT TIMES
   0.0  500000. 1000000.
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
    1
 RESTART PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTRST
    999
 ASCII PRINT FLAGS
 1 0 0 0 0  0 0 0 1 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 0 0 0 0  0 0 0 1 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    0
 MONITOR PARAMETER VALUES AT 1 GRIDBLOCK
 T
 NUMBER OF MONITOR BLOCKS
    1
 MONITOR BLOCK (I,J,K)
    1    1    1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    0    0    0    1
 GRID DATA CARDS: GRID BLOCK DX'S
 10.
 GRID DATA CARDS: GRID BLOCK DY'S
 10.
 GRID DATA CARDS: GRID BLOCK DZ'S
 10.
 DEPTH
  0.  10.  20.  30.  40.  50.  60.  70.  80.  90.
100. 110. 120. 130. 140. 150. 160. 170. 180. 190.
200. 210. 220. 230. 240. 250. 260. 270. 280. 290.
300. 310. 320. 330. 340. 350. 360. 370. 380. 390.
400. 410. 420. 430. 440. 450. 460. 470. 480. 490.
 WELL DATA
  0
 DIRCHLET CONDITIONS
```

```
 F  28
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 50*10.E+06
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
50*0.999999E+00
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
50*0.0
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
50*0.0
DSATLIM, DPRESLIM, SATLIMIT
  1.0000E-01  -1.0000E+07   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  2.0000E-01   0.5000E+06
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  0.1000E+00   1.0000E+06
CONVERGENGE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  6.0000E+00   1.0000E-06
FTOL_SAT     FTOL_PRES:  NORMAL RESIDUAL TOLERANCE
  1.0000E-06   1.0000E-06
FTOL_SAT     FTOL_PRES:  RELAXED RESIDUAL TOLERANCE
  1.0000E-06   1.0000E-06
RXN PATH TOLS
  4*1.E-4
SOLVER
 LU
ITMAX, IRESETMAX, IJACINT, SCALING, P_SCALE, LVARSWTCH
  5   40    1    T    1.E7    F
IUPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
  40   40     5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  99  10    2   99   99
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-09   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0
MATERIAL TYPE GRID MAP
50*1
 #     NAME
 1     ROCK
NWST
0
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME,  ICWASTE
0.0000   0
POWASTEIC
 0.
SOWASTEIC
 0.
PRESDRZ
 0.
NBORERESET
 0
# LAMBDA        SOR          SGR
1 0.7           0.0          0.0
# SBMIN         PBMIN        PCMAX           PCT_A   PCT_EXP   KRP  KPC  KPT
1 1.0          1.013250E+05 1.0E+08          0.0     0.0        4    2    0
# PERMX         PERMY        PERMZ         POROSITY     COMPRES
1 1.E-10        1.E-10       1.E-10          0.3          0.0
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
```

```
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.0E+05
SALT(WT.%)   DEN_BR   KGSAT   IDGAS   COMPR_BR WMSALT WMH2O
0.0          1000.0    0       0        1.0E-8 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
1.0E-3     1.0E-5
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE; =-2 IDEAL GAS LAW
-2
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0 0.0
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  1
IGASVAR (1=GENERATION USING REACTION SOURCE; 0= USING WELLS)
1
RATE CONSTANTS: CORROSION (RKCOR) AND  AND BIODEGRADATION (RKBIO)
 0.0   0.0  F
HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
 0.0   0.0
RATE CONSTANTS: BRUCITEI AND BRUCITEH
 0.0  0.0
RATE COEFFICIENTS: RXH2S AND RXCO2
CHEMISTRY CUTOFF SATURATION:  SOCMIN
 0.0
REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
 2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
 8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
WICKING SATURATION, HUMID SMOOTHING, ALPHARXN
0.0   F  F  1000.
CREEP CLOSURE? IF .TRUE., 0=MOLE-BASED; 1=PRESSURE-BASED,  PRES_LITHO   TIME_INTRU
 F
RADIOACTIVE DECAY?
 F
WILL TRANSPORT BE CALCULATED? T or F
 F
RXN PATH
 F
```

A.11.3 Test Case 11: Output Difference File, BF2_QB0600_ES47_TEST11_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
```

```
    3     ** Begun on: 04/12/06 at 14:31:05 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
   62     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
   61     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_TEST11_DENNEW_QA0500.INP;2
   62     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
   66     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_CLOSURE.DAT;1
   67     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   72     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
   71     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
   72     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
   77     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
   76     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST11DENNEW]BF2_VMS82_V500_ES47_TEST11_DENNEW.SUM;1
   77     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  126     Restart output timestep interval (IPRNTRST) = 999
  128
****************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  126     Restart output timestep interval (IPRNTRST) =999
  128
****************************************************************************************
*************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  179     43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  180     44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  181     45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  182     46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  183     47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  184     48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  185     49 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  186     50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  187     51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  188     52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  189     53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  190     54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  191     55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  192     56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  193     57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  194     58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  195     59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  196     60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  197     61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  198     62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
```

```
199     63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
200     64 0 0 CONCST Salt concentration -- simple model kg/m^3
201     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
202     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
203     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
204     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
205     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
206     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
207     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
208     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
209     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
210     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
211     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
212     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
213     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
214     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
215     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
216     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
217     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
218     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
219     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
220     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
221     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
222     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
223     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
224     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
225     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
226     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
227     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
228     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
229     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
230     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
231     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
232     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
233     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
234     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
235     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
236     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
237     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
238     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
239     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
240     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
241     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
242     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
243     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
244     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
245     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
246     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
247     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
248     112 0 0 H2OFLOWIN Water inflow rate kg/s
249     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
250     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
251     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
252     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
253     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
254     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
255     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
256     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
257     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
258     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
259     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
260     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 262
*****************************************************************************************
*************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  179     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  180     44 0 0 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  181     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
```

```
182     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
183     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
184     48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
185     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
186     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
187     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
188     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
189     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
190     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
191     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
192     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
193     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
194     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
195     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
196     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
197     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
198     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
199     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
200     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
201     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
202     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
203     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
204     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
205     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
206     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
207     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
208     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
209     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
210     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
211     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
212     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
213     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
214     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
215     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
216     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
217     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
218     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
219     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
220     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
221     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
222     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
223     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
224     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
225     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
226     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
227     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
228     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
229     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
230     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
231     95 0 0 H2OFLOWIN Water inflow rate kg/s
232     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
233     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
234     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
235     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
236     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
237     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
238     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
239     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
240     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
241     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
242     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
243     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
245
************************************************************************************************************
**************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  412     instead of Input IC's for the Cavities
  413     [0=No, 1=Yes] (ICWASTE) = 0
  415     Uniform Cavity Region
  416     Uniform Cavity Region
  418     --------------------------------------------------------------------------------------------
-------------------------------------
******
```

```
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  395     instead of Input IC's for the Waste
  396     [0=No, 1=Yes] (ICWASTE) = 0
  398     Uniform Waste Region
  399     Uniform Waste Region
  401     ------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  447     TOL = 1.0000E-02
  448     SOCEFFMIN = 1.0000E-03
  450     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  431     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  497     Intrinsic reaction rate constants? (LINTRIN): F
  499     Reaction rate constants (RK):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  478     Reaction rate constants (RK):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  507     MgO hydration reaction rate constants:
  508     Inundated reaction (BRUCITEI) = 0.000000E+00 mol MgO/(s*m^3)
  509     Humid reaction (BRUCITEH) = 0.000000E+00 mol MgO/(s*m^3)
  511     Saturation cutoff value (SOCMIN): 0.000000E+00
  513     Stoichiometric coeff's for Rxn 1:
  514     H2 coefficient = 0.000000E+00
  515     H2O coefficient = 0.000000E+00
  516     Fe coefficient = 0.000000E+00
  517     Bio coefficient = 0.000000E+00
  518     Fe(OH)2 coefficient = 0.000000E+00
  519     FeS coefficient = 0.000000E+00
  520     MgO coefficient = 0.000000E+00
  521     Mg(OH)2 coefficient = 0.000000E+00
  522     MgCO3 coefficient = 0.000000E+00
  524     Stoichiometric coeff's for Rxn 2:
  525     H2 coefficient = 0.000000E+00
  526     H2O coefficient = 0.000000E+00
  527     Fe coefficient = 0.000000E+00
  528     Bio coefficient = 0.000000E+00
  529     Fe(OH)2 coefficient = 0.000000E+00
  530     FeS coefficient = 0.000000E+00
  531     MgO coefficient = 0.000000E+00
  532     Mg(OH)2 coefficient = 0.000000E+00
  533     MgCO3 coefficient = 0.000000E+00
  535     Stoichiometric coeff's for Rxn 3:
  536     H2 coefficient = 0.000000E+00
  537     H2O coefficient = 0.000000E+00
  538     Fe coefficient = 0.000000E+00
  539     Bio coefficient = 0.000000E+00
  540     Fe(OH)2 coefficient = 0.000000E+00
  541     FeS coefficient = 0.000000E+00
  542     MgO coefficient = 0.000000E+00
  543     Mg(OH)2 coefficient = 0.000000E+00
  544     MgCO3 coefficient = 0.000000E+00
  546     Stoichiometric coeff's for Rxn 4:
  547     H2 coefficient = 0.000000E+00
  548     H2O coefficient = 0.000000E+00
  549     Fe coefficient = 0.000000E+00
  550     Bio coefficient = 0.000000E+00
  551     Fe(OH)2 coefficient = 0.000000E+00
  552     FeS coefficient = 0.000000E+00
  553     MgO coefficient = 0.000000E+00
  554     Mg(OH)2 coefficient = 0.000000E+00
  555     MgCO3 coefficient = 0.000000E+00
  557     Stoichiometric coeff's for Rxn 5:
```

```
  558     H2 coefficient = 0.000000E+00
  559     H2O coefficient = 0.000000E+00
  560     Fe coefficient = 0.000000E+00
  561     Bio coefficient = 0.000000E+00
  562     Fe(OH)2 coefficient = 0.000000E+00
  563     FeS coefficient = 0.000000E+00
  564     MgO coefficient = 0.000000E+00
  565     Mg(OH)2 coefficient = 0.000000E+00
  566     MgCO3 coefficient = 0.000000E+00
  568     Stoichiometric coeff's for Rxn 6:
  569     H2 coefficient = 0.000000E+00
  570     H2O coefficient = 0.000000E+00
  571     Fe coefficient = 0.000000E+00
  572     Bio coefficient = 0.000000E+00
  573     Fe(OH)2 coefficient = 0.000000E+00
  574     FeS coefficient = 0.000000E+00
  575     MgO coefficient = 0.000000E+00
  576     Mg(OH)2 coefficient = 0.000000E+00
  577     MgCO3 coefficient = 0.000000E+00
  579     Stoichiometric coeff's for Rxn 7:
  580     H2 coefficient = 0.000000E+00
  581     H2O coefficient = 0.000000E+00
  582     Fe coefficient = 0.000000E+00
  583     Bio coefficient = 0.000000E+00
  584     Fe(OH)2 coefficient = 0.000000E+00
  585     FeS coefficient = 0.000000E+00
  586     MgO coefficient = 0.000000E+00
  587     Mg(OH)2 coefficient = 0.000000E+00
  588     MgCO3 coefficient = 0.000000E+00
  590     Wicking term (SATWICK) = 0.000000E+00
  591     Humid rates to be smoothed? (LARXN) = F
  592     Concentration rates to be smoothed? (LARXN2) = F
  593     Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
  595     Molecular weights (WM):
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  486     Stoichiometric coeff's for corrosion rxn [S(1,I)]:
  487     Gas coefficient = 1.173000E+00
  488     H2O coefficient = 1.654000E+00
  489     Fe coefficient = 1.000000E+00
  491     Stoichiometric coeff's for biodegr. rxn [S(2,I)]:
  492     Gas coefficient = 7.677000E-01
  493     H2O coefficient = 0.000000E+00
  494     Bio coefficient = 1.000000E+00
  496     Molecular weights (WM):
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  599     Bio: 2.7023E-02 kg/mol
  601     Molecular weights (WM):
  602     Fe(OH)2: 8.9862E-02 kg/mol
  603     FeS: 8.7900E-02 kg/mol
  604     MgO: 4.0304E-02 kg/mol
  605     Mg(OH)2: 5.8320E-02 kg/mol
  606     MgCO3: 8.4314E-02 kg/mol
  608     Densities (DEN(1-4)):
  609     Fe: 7.8700E+03 kg/m3
  610     Fe(OH)2: 3.4000E+03 kg/m3
  611     FeS: 4.7000E+03 kg/m3
  612     Bio: 1.1000E+03 kg/m3
  614     Densities (DEN(5-8)):
  615     MgO: 3.6000E+03 kg/m3
  616     Mg(OH)2: 2.3700E+03 kg/m3
  617     MgCO3: 3.0500E+03 kg/m3
  618     SALT: 2.1700E+03 kg/m3
  620     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  500     Bio: 3.0026E-02 kg/mol
  502     Wicking term (SATWICK) = 0.000000E+00
  503     Humid rates to be smoothed? (LARXN) = F
```

```
  504    Humid rate smoothing factor (ALPHARXN) = 1.000000E+03
  506    Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  733    Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  736   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  619    Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.01 ( 0.01 sec) ASCII
  622   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  745    CPU Time (total for run) = 0.16 sec = 0.00004 hr
  746   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  631    CPU Time (total for run) = 0.14 sec = 0.00004 hr
  632   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  772    Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
  775   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  658    Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) ASCII
  661   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  784    CPU Time (total for run) = 0.21 sec = 0.00006 hr
  785   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  670    CPU Time (total for run) = 0.19 sec = 0.00005 hr
  671   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  811    Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
  816    ********************************************************************************
  817    * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  818    * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  819    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
  697    Date: 04/12/06 Time: 14:31:05 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) ASCII
  702    ********************************************************************************
  703    * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
  704    * Completed: 04/12/06 at 14:31:05 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
  705    ********************************************************************************
************

Number of difference sections found: 17
Number of difference records found: 199

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT;1
```

A.11.4 Test Case 11: Output Difference Files, BF2_QB0600_ES40_TEST11_OUT.DIF and BF2_QB0600_ES45_TEST11_OUT.DIF

BF2_QB0600_ES40_TEST11_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
    3    ** Begun on: 02/14/07 at 11:08:08 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
    4    ********************************************************************************
```

```
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
    3     ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_TEST11.INP;1
   62    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
   62    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_CLOSURE.DAT;1
   67    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
   67    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
   72    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   72    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.SUM;1
   77    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
   77    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  733     Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.05 ( 0.05 sec) ASCII
  736    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  733     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  736    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  745     CPU Time (total for run) = 0.27 sec = 0.00008 hr
  746    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  745     CPU Time (total for run) = 0.16 sec = 0.00004 hr
  746    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  772     Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) ASCII
  775    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  772     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
  775    **********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  784     CPU Time (total for run) = 0.34 sec = 0.00009 hr
  785    **********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  784     CPU Time (total for run) = 0.21 sec = 0.00006 hr
  785    **********************************************************************************
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1
  811     Date: 02/14/07 Time: 11:08:08 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) ASCII
  816     ******************************************************************************
  817     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  818     * Completed: 02/14/07 at 11:08:08 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
  819     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  811     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
  816     ******************************************************************************
  817     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  818     * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  819     ******************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 13

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES40_TEST11.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
```

BF2_QB0600_ES45_TEST11_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
    3     ** Begun on: 02/14/07 at 11:10:33 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
    3     ** Begun on: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_TEST11.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_TEST11.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST11]BF2_QB0600_ES47_TEST11.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
```

```
  733     Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  736   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  733     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.02 ( 0.02 sec) ASCII
  736   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
  745     CPU Time (total for run) = 0.21 sec = 0.00006 hr
  746   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  745     CPU Time (total for run) = 0.16 sec = 0.00004 hr
  746   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
  772     Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
  775   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  772     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
  775   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
  784     CPU Time (total for run) = 0.27 sec = 0.00008 hr
  785   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  784     CPU Time (total for run) = 0.21 sec = 0.00006 hr
  785   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1
  811     Date: 02/14/07 Time: 11:10:33 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) ASCII
  816   ********************************************************************************
  817     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  818     * Completed: 02/14/07 at 11:10:33 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
  819   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
  811     Date: 02/14/07 Time: 10:55:25 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) ASCII
  816   ********************************************************************************
  817     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
  818     * Completed: 02/14/07 at 10:55:25 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
  819   ********************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 13

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES45_TEST11.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST11]BF2_QB0600_ES47_TEST11.OUT;1
```

A.12 Test Case 12 Files

A.12.1 Test Case 12: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST12_UPPER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_UPPER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST12_UPPER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST12_UPPER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST12_UPPER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST12_UPPER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST12_UPPER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST12_UPPER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_UPPER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST12_UPPER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST12_UPPER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST12_UPPER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST12_UPPER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST12_UPPER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST12_UPPER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_UPPER.INP
$   DEFINE bf2_uifold$input working_dir:BF2_R1_S3_V046_T1200_U_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST12_UPPER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST12_UPPER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST12_UPPER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST12_UPPER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST12_UPPER.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES40_TEST12_LOWER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_LOWER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST12_LOWER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST12_LOWER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST12_LOWER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST12_LOWER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST12_LOWER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST12_LOWER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_LOWER.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST12_LOWER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST12_LOWER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST12_LOWER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST12_LOWER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST12_LOWER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST12_LOWER_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST12_LOWER.INP
$   DEFINE bf2_uifold$input working_dir:BF2_R1_S3_V046_T1200_L_QA0500.INP
```

```
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST12_LOWER.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST12_LOWER.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST12_LOWER.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST12_LOWER.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST12_LOWER.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.12.2 Test Case 12: Input Files, BF2_QB0600_TEST12_UPPER.INP and BF2_QB0600_TEST12_LOWER.INP

BF2_QB0600_TEST12_UPPER.INP

```
**QA**        = PREBRAG QA RECORDS
PREBRAG_      = PROGRAM NAME
6.00          = PROGRAM VERSION
02/06/96      = PROGRAM REVISION DATE
05/05/97      = PROGRAM RUN DATE
22:41:10      = PROGRAM RUN TIME
BRINE BLOWOUT IN REPOSITORY SCALE MODEL
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   39   39    1
TSTART,   TMAX,       MAXSTEPS
  0.0000E+00   4.3230E+06   1000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
  8.6400E-01   8.6400E-02   8.6460E+04   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'     'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   5
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 4.3230E+06
ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0
 0
 0
 0
BINARY PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  1 1 0 0 0
 0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0
 0
 0
```

```
 0
HISTORY VARIABLE OUTPUT
   2
  21    2    NAME=TIME-AVERAGE WELL BRINE FLOW RATE
21 27  1    6  5  1
  22    2    NAME=TIME-AVERAGE WELL GAS FLOW RATE
21 27  1    6  5  1
MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
T
NUMBER OF MONITOR BLOCKS
   3
MONITOR BLOCKS (I,J,K)
   8    5    1
  19   18    1
  34   35    1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    2    1    7
GRID DATA CARDS: GRID BLOCK DX'S
5.120000E+00  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01
3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01
3.050000E+01  1.000000E+01  2.100000E+01  4.000000E+01  4.300000E+00  4.220000E+01
4.300000E+00  4.650000E+01  7.600000E+00  3.800000E+01  4.300000E+00  4.000000E+01
2.100000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01
3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01
3.050000E+01  1.000000E+01  5.120000E+00
GRID DATA CARDS: GRID BLOCK DY'S
5.120000E+00  3.600000E+00  6.400000E+00  3.270000E+01  3.270000E+01  3.270000E+01
4.300000E+00  5.700000E+00  5.120000E+00  4.596000E+01  5.120000E+00  3.600000E+00
6.400000E+00  3.050000E+01  3.050000E+01  3.050000E+01  4.300000E+00  5.700000E+00
1.275000E+01  4.000000E+01  1.275000E+01  3.600000E+00  6.400000E+00  3.050000E+01
3.050000E+01  3.050000E+01  4.300000E+00  5.700000E+00  5.120000E+00  4.596000E+01
5.120000E+00  3.600000E+00  6.400000E+00  3.050000E+01  3.050000E+01  3.050000E+01
6.100000E+00  3.900000E+00  5.120000E+00
GRID DATA CARDS: GRID BLOCK DZ'S
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00
1.364480E+00  1.364480E+00  1.364480E+00
GRID BLOCK ELEVATIONS
 39*3.650623E+02
 39*3.651384E+02
 39*3.652256E+02
 39*3.655669E+02
 39*3.661375E+02
 39*3.667083E+02
 39*3.670311E+02
 39*3.671184E+02
 39*3.672128E+02
 39*3.676585E+02
 39*3.681042E+02
 39*3.681804E+02
 39*3.682676E+02
 39*3.685896E+02
 39*3.691219E+02
 39*3.696542E+02
 39*3.699579E+02
 39*3.700451E+02
 39*3.702061E+02
 39*3.706664E+02
 39*3.711267E+02
 39*3.712694E+02
 39*3.713567E+02
 39*3.716787E+02
 39*3.722110E+02
 39*3.727433E+02
 39*3.730470E+02
 39*3.731342E+02
 39*3.732286E+02
 39*3.736744E+02
 39*3.741201E+02
 39*3.741962E+02
 39*3.742834E+02
 39*3.746055E+02
```

```
 39*3.751378E+02
 39*3.756700E+02
 39*3.759894E+02
 39*3.760767E+02
 39*3.761554E+02
WELL DATA
 1
0.0000E+00    2
  21   27    1    1
PROD
 0.000000E+00  0.000000E+00  9.985211E-14  2.293322E+05
   6    5    1    1
INJP
 0.000000E+00  0.000000E+00  6.305752E-14  1.314511E+07
DIRICHLET CONDITIONS
F      0
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254244E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.254054E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253493E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
 39*1.253455E+07
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
  5*4.753520E-01    1*1.000000E+00   33*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
```

```
 39*5.880882E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
```

```
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
DSATLIM, DPRESLIM, SATLIMIT
  2.0000E-01  -1.0000E+08   1.0000E-03
SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
  3.0000E-01   5.0000E+05
MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
  1.0000E+00   1.0000E+07
CONVERGENGE TEST FLAG: 0=OR/1=AND
   1
EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
  3.0000E+00   1.0000E-02
```

```
FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
  1.0000E-02   1.0000E-02
GAS TRANSPORT TOLERANCES
  1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
LINEAR EQUATION SOLVER TYPE
LU
ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
   8   40    1   T     1.0000E+07 F
IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
   9    9   5.0000E-01    1    0
IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
  41    1    5    9    9
DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
  1.0000E-08   1.0000E-08
DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
  1.0000E-10   1.0000E-02
NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
1
START TIME FOR MAP 1
0.0000E+00
MATERIAL TYPE GRID MAP
15*2   9*3  15*2
 1*2  13*1  11*2  13*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
15*3   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2  15*3
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
15*3   1*2   1*4   1*2   1*4   1*2   1*4   1*2   1*4   1*2  15*3
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
 1*2   1*1   1*2   1*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
15*3   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2  15*3
16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
 1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
 1*2  14*1   1*4   7*1   1*4  14*1   1*2
 1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
 1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
```

```
  1*2   1*1   1*2   1*1   1*2
  1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
  1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
  1*2   1*1   1*2   1*1   1*2
  1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1
  1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1
  1*2   1*1   1*2   1*1   1*2
  1*2  14*1   1*4   7*1   1*4  14*1   1*2
  1*2  13*1  11*2  13*1   1*2
 15*2   9*3  15*2
  #     NAME
  1     WAS_AREA
  2     DRZ_1
  3     S_HALITE
  4     PAN_SEAL
NWST
0
NDRZ
0
NMATRESET
0
BORE HOLE MATERIAL NUMBER
0
RESET TIME,  ICWASTE
0.0000E+00    0
POWASTEIC

SOWASTEIC

PRESDRZ

NBORERESET
 0
# LAMBDA        SOR           SGR
1 2.890000E+00 2.974000E-03 9.002000E-02
2 7.000000E-01 0.000000E+00 0.000000E+00
3 7.000000E-01 3.000000E-01 2.000000E-01
4 9.400000E-01 2.000000E-01 2.000000E-01
# SBMIN         PBMIN         PCMAX          PCT_A         PCT_EXP      KRP KPC KTP
1 3.122700E-03 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
3 3.150000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
4 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
# PERMX         PERMY         PERMZ         POROSITY      COMPRES
1 1.702158E-13 1.702158E-13 1.702158E-13  5.598791E-01  0.000000E+00
2 1.000000E-15 1.000000E-15 1.000000E-15  8.489826E-02  8.728094E-09
3 3.162278E-23 3.162278E-23 3.162278E-23  6.581260E-02  1.481479E-09
4 1.000000E-15 1.000000E-15 1.000000E-15  2.176653E-01  1.212871E-08
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01325E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
3.2400E+01 1.2200E+03    1     0    3.1000E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
 2.10000E-03  8.93389E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03 16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
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RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
0
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
CREEP CLOSURE?
 F
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

BF2_QB0600_TEST12_LOWER.INP

```
**QA**        = PREBRAG QA RECORDS
PREBRAG_      = PROGRAM NAME
6.00          = PROGRAM VERSION
02/06/96      = PROGRAM REVISION DATE
05/05/97      = PROGRAM RUN DATE
22:41:24      = PROGRAM RUN TIME
BRINE BLOWOUT IN REPOSITORY SCALE MODEL
FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
T T T T F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   2   39   39    1
TSTART,   TMAX,       MAXSTEPS
  0.0000E+00   4.3230E+06   1000
DT_INIT,  DT_MIN,    DT_MAX,    DT_INCR, IAUTODT, TSWITCH
  8.6400E-01   8.6400E-02   8.6460E+04   1.2500E+00  1     1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   0
IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
   2    0    2     'SI'      'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   2
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   5
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   1
USER REQUESTED RESTART TIMES
 4.3230E+06
ASCII PRINT FLAGS
 1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0
 0
```

```
  0
  0
 BINARY PRINT FLAGS
  1 1 0 0 0  1 0 0 0 0  0 0 0 0 0  0 0 1 0 0  1 1 0 0 0
  0 0 0 0 0  1 1 0 1 1  0 0 0 0 0  0 0 0 0 0  0 0 0 1 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
  0 0 0
  0
  0
  0
 HISTORY VARIABLE OUTPUT
    2
   21    2    NAME=TIME-AVERAGE WELL BRINE FLOW RATE
12  5  1    6  5  1
   22    2    NAME=TIME-AVERAGE WELL GAS FLOW RATE
12  5  1    6  5  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
    8    5    1
   19   18    1
   34   35    1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
    1    2    1    7
 GRID DATA CARDS: GRID BLOCK DX'S
 5.120000E+00  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01
1.000000E+01
 3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01
1.000000E+01
 3.050000E+01  1.000000E+01  2.100000E+01  4.000000E+01  4.300000E+00
4.220000E+01
 4.300000E+00  4.650000E+01  7.600000E+00  3.800000E+01  4.300000E+00
4.000000E+01
 2.100000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01
1.000000E+01
 3.050000E+01  1.000000E+01  3.050000E+01  1.000000E+01  3.050000E+01
1.000000E+01
 3.050000E+01  1.000000E+01  5.120000E+00
 GRID DATA CARDS: GRID BLOCK DY'S
 5.120000E+00  3.600000E+00  6.400000E+00  3.270000E+01  3.270000E+01
3.270000E+01
 4.300000E+00  5.700000E+00  5.120000E+00  4.596000E+01  5.120000E+00 3.600000E+00
 6.400000E+00  3.050000E+01  3.050000E+01  3.050000E+01  4.300000E+00 5.700000E+00
 1.275000E+01  4.000000E+01  1.275000E+01  3.600000E+00  6.400000E+00
3.050000E+01
 3.050000E+01  3.050000E+01  4.300000E+00  5.700000E+00  5.120000E+00
4.596000E+01
 5.120000E+00  3.600000E+00  6.400000E+00  3.050000E+01  3.050000E+01
3.050000E+01
 6.100000E+00  3.900000E+00  5.120000E+00
 GRID DATA CARDS: GRID BLOCK DZ'S
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00  1.364480E+00 1.364480E+00
 1.364480E+00  1.364480E+00  1.364480E+00
 GRID BLOCK ELEVATIONS
  39*3.650623E+02
  39*3.651384E+02
  39*3.652256E+02
  39*3.655669E+02
  39*3.661375E+02
  39*3.667083E+02
  39*3.670311E+02
  39*3.671184E+02
  39*3.672128E+02
  39*3.676585E+02
  39*3.681042E+02
  39*3.681804E+02
  39*3.682676E+02
  39*3.685896E+02
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  39*3.691219E+02
  39*3.696542E+02
  39*3.699579E+02
  39*3.700451E+02
  39*3.702061E+02
  39*3.706664E+02
  39*3.711267E+02
  39*3.712694E+02
  39*3.713567E+02
  39*3.716787E+02
  39*3.722110E+02
  39*3.727433E+02
  39*3.730470E+02
  39*3.731342E+02
  39*3.732286E+02
  39*3.736744E+02
  39*3.741201E+02
  39*3.741962E+02
  39*3.742834E+02
  39*3.746055E+02
  39*3.751378E+02
  39*3.756700E+02
  39*3.759894E+02
  39*3.760767E+02
  39*3.761554E+02
 WELL DATA
  1
 0.0000E+00    2
   12    5    1    1
 PROD
  0.000000E+00  0.000000E+00  9.985211E-14  2.824471E+05
    6    5    1    1
 INJP
  0.000000E+00  0.000000E+00  6.305752E-14  1.314511E+07
 DIRICHLET CONDITIONS
 F      0
 GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254244E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.254054E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253493E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
  39*1.253455E+07
```

```
GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
  5*4.753520E-01    1*1.000000E+00   33*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*4.753520E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*5.880882E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*1.199539E-01
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
 39*8.424538E-02
GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
 39*0.000000E+00
```

```
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
 GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
  39*0.000000E+00
```

```
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
   39*0.000000E+00
  DSATLIM, DPRESLIM, SATLIMIT
    2.0000E-01  -1.0000E+08   1.0000E-03
  SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
    3.0000E-01   5.0000E+05
  MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
    1.0000E+00   1.0000E+07
  CONVERGENGE TEST FLAG: 0=OR/1=AND
     1
  EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
    3.0000E+00   1.0000E-02
  EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
    3.0000E+00   1.0000E-02
  FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
    1.0000E-02   1.0000E-02
  FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
    1.0000E-02   1.0000E-02
  GAS TRANSPORT TOLERANCES
    1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
  LINEAR EQUATION SOLVER TYPE
  LU
  ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
     8   40     1    T     1.0000E+07 F
  IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
     9     9   5.0000E-01    1     0
  IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
    41     1     5     9     9
  DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
    1.0000E-08   1.0000E-08
  DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
    1.0000E-10   1.0000E-02
  NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
  1
  START TIME FOR MAP 1
  0.0000E+00
  MATERIAL TYPE GRID MAP
  15*2   9*3  15*2
   1*2  13*1  11*2  13*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
  15*3   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2  15*3
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
```

```
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
  15*3   1*2   1*4   1*2   1*4   1*2   1*4   1*2   1*4   1*2  15*3
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
  15*3   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2  15*3
  16*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1  16*2
   1*2  13*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   2*2  13*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   2*2   1*1
   1*2   1*1   1*2   1*1   1*2   1*1   2*2   1*1   1*2   1*1   1*2   1*1   1*2
1*1   1*2   1*1
   1*2   1*1   1*2   1*1   1*2
   1*2  14*1   1*4   7*1   1*4  14*1   1*2
   1*2  13*1  11*2  13*1   1*2
  15*2   9*3  15*2
   #     NAME
   1     WAS_AREA
   2     DRZ_1
   3     S_HALITE
   4     PAN_SEAL
  NWST
  0
  NDRZ
  0
  NMATRESET
  0
  BORE HOLE MATERIAL NUMBER
  0
  RESET TIME,  ICWASTE
  0.0000E+00    0
  POWASTEIC

  SOWASTEIC

  PRESDRZ

  NBORERESET
```

```
 0
# LAMBDA       SOR          SGR
1 2.890000E+00 2.974000E-03 9.002000E-02
2 7.000000E-01 0.000000E+00 0.000000E+00
3 7.000000E-01 3.000000E-01 2.000000E-01
4 9.400000E-01 2.000000E-01 2.000000E-01
# SBMIN        PBMIN        PCMAX           PCT_A         PCT_EXP      KRP KPC KTP
1 3.122700E-03 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
2 0.000000E+00 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
3 3.150000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
4 2.100000E-01 1.013250E+05 1.000000E+08  0.000000E+00  0.000000E+00  4   1   0
# PERMX        PERMY        PERMZ         POROSITY      COMPRES
1 1.702158E-13 1.702158E-13 1.702158E-13  5.598791E-01  0.000000E+00
2 1.000000E-15 1.000000E-15 1.000000E-15  8.489826E-02  8.728094E-09
3 3.162278E-23 3.162278E-23 3.162278E-23  6.581260E-02  1.481479E-09
4 1.000000E-15 1.000000E-15 1.000000E-15  2.176653E-01  1.212871E-08
TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
1.000000E-02 1.000000E-03
NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
0
FRACTURE MODEL DATA TO FOLLOW :T OR F
F
KLINKENBERG EFFECT TO BE USED? True or False
F
GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
9.79D+00 8.314510D+00
REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
 3.00150E+02  1.01325E+05
SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
3.2400E+01 1.2200E+03    1     0      3.1000E-10 58.442468D-03  18.01528D-03
VISC_BR   VISC_GAS
 2.10000E-03  8.93389E-06
GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
1
GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
1  1
RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
43.6D+00  20.47D+05  2.01588D-03
RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
0.42747D+00  0.08664D+00
RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CO2
-0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR CH4
-0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR N2
+0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
BINARY INTERACTION PARAMETERS FOR H2S
+0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
0
REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
 7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
 3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
CREEP CLOSURE?
 F
WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
F
WILL TRANSPORT BE CALCULATED? T or F
F
WILL RADIOLYSIS BE CALCULATED? T or F
```

```
F
BRAGFLO GAS COMPONENT TRANSPORT MODEL
F
```

A.12.3 Test Case 12: Output Difference Files, BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF and BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/12/06 at 14:36:57 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4     ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   71     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   70     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_R1_S3_V046_T1200_U_QA0500.INP;2
   71     ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
   76     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   75     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_CLOSURE.DAT;1
   76     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   81     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   80
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   81     ***************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
   86     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   85
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.SUM;1
   86     ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
   91     ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
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   90
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.BIN;1
   91      ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   95      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
   96      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
   95
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.ROT;1
   96      ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
  198      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  199      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  200      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  201      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  202      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  203      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  204      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  205      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  206      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  207      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  208      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  209      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  210      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  211      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  212      57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  213      58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  214      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  215      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  216      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  217      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  218      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  219      64 0 0 CONCST Salt concentration -- simple model kg/m^3
  220      65 0 0 PORSOLID Volume fraction of generated solids dimensionless
  221      66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
  222      67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
  223      68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
  224      69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
  225      70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
  226      71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
  227      72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
  228      73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
  229      74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
  230      75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
  231      76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
  232      77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
  233      78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
  234      79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
  235      80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
  236      81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
  237      82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
  238      83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
  239      84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
  240      85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
  241      86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
  242      87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
  243      88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
  244      89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
  245      90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
  246      91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
  247      92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
  248      93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
  249      94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
  250      95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
  251      96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
  252      97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
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98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg

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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
47 0 0 CONCFE Fe concentration -- simple model kg/m^3
48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
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  239     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
  240     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
  241     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
  242     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
  243     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
  244     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
  245     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
  246     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
  247     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
  248     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
  249     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
  250     95 0 0 H2OFLOWIN Water inflow rate kg/s
  251     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
  252     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
  253     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
  254     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
  255     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
  256     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
  257     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
  258     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
  259     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
  260     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
  261     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
  262     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
  264
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
  835     instead of Input IC's for the Cavities
  836     [0=No, 1=Yes] (ICWASTE) = 0
  838     Uniform Cavity Region
  839     Uniform Cavity Region
  841     -----------------------------------------------------------------------------------------
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
  818     instead of Input IC's for the Waste
  819     [0=No, 1=Yes] (ICWASTE) = 0
  821     Uniform Waste Region
  822     Uniform Waste Region
  824     -----------------------------------------------------------------------------------------
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
  873     TOL = 1.0000E-02
  874     SOCEFFMIN = 1.0000E-03
  876     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
  857     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
  975     Densities (DEN(1-4)):
  976     Fe: 7.8700E+03 kg/m3
  977     Fe(OH)2: 3.4000E+03 kg/m3
  978     FeS: 4.7000E+03 kg/m3
  979     Bio: 1.1000E+03 kg/m3
  981     Densities (DEN(5-8)):
  982     MgO: 3.6000E+03 kg/m3
  983     Mg(OH)2: 2.3700E+03 kg/m3
  984     MgCO3: 3.0500E+03 kg/m3
  985     SALT: 2.1700E+03 kg/m3
  987     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
  956     Will creep closure be used (CLOSURE): F
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2336     Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
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 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 ( 4.86 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 ( 6.83 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 ( 8.80 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2357     Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 ( 10.77 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2360     Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 ( 12.74 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.986599E-01 days
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 ( 14.71 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 ( 16.69 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 ( 18.68 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 ( 20.65 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 ( 22.64 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 ( 24.63 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 ( 26.60 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2384     Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 ( 28.58 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2387     Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 ( 30.56 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2390     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 ( 32.53 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2393     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 ( 34.50 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2396     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
 2398     Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2399     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
 2402     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 2305     Date: 04/12/06 Time: 14:36:58 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) ASCII
 2307     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2308     Date: 04/12/06 Time: 14:36:58 CPU Time: 0 0: 0: 0.08 ( 0.08 sec) Binary
 2310     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2311     Date: 04/12/06 Time: 14:36:59 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 2313     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2314     Date: 04/12/06 Time: 14:37:00 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 2316     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2317     Date: 04/12/06 Time: 14:37:02 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
 2319     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2320     Date: 04/12/06 Time: 14:37:04 CPU Time: 0 0: 0: 6.16 ( 6.16 sec) Binary
 2322     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2323     Date: 04/12/06 Time: 14:37:06 CPU Time: 0 0: 0: 7.93 ( 7.93 sec) Binary
 2325     Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2326     Date: 04/12/06 Time: 14:37:08 CPU Time: 0 0: 0: 9.72 ( 9.72 sec) Binary
 2328     Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2329     Date: 04/12/06 Time: 14:37:09 CPU Time: 0 0: 0:11.47 ( 11.47 sec) Binary
 2331     Time Step No. = 40 Elapsed Time = 2.986599E-01 days
 2332     Date: 04/12/06 Time: 14:37:11 CPU Time: 0 0: 0:13.23 ( 13.23 sec) Binary
 2334     Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2335     Date: 04/12/06 Time: 14:37:13 CPU Time: 0 0: 0:15.00 ( 15.00 sec) Binary
 2337     Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2338     Date: 04/12/06 Time: 14:37:15 CPU Time: 0 0: 0:16.78 ( 16.78 sec) Binary
 2340     Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2341     Date: 04/12/06 Time: 14:37:17 CPU Time: 0 0: 0:18.54 ( 18.54 sec) Binary
 2343     Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2344     Date: 04/12/06 Time: 14:37:18 CPU Time: 0 0: 0:20.32 ( 20.32 sec) Binary
 2346     Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2347     Date: 04/12/06 Time: 14:37:20 CPU Time: 0 0: 0:22.24 ( 22.24 sec) Binary
 2349     Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2350     Date: 04/12/06 Time: 14:37:22 CPU Time: 0 0: 0:24.04 ( 24.04 sec) Binary
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 2352     Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2353     Date: 04/12/06 Time: 14:37:24 CPU Time: 0 0: 0:25.82 ( 25.82 sec) Binary
 2355     Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2356     Date: 04/12/06 Time: 14:37:26 CPU Time: 0 0: 0:27.61 ( 27.61 sec) Binary
 2358     Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2359     Date: 04/12/06 Time: 14:37:28 CPU Time: 0 0: 0:29.39 ( 29.39 sec) Binary
 2361     Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2362     Date: 04/12/06 Time: 14:37:29 CPU Time: 0 0: 0:31.18 ( 31.18 sec) Binary
 2364     Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2365     Date: 04/12/06 Time: 14:37:31 CPU Time: 0 0: 0:32.96 ( 32.96 sec) Binary
 2367     Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2368     Date: 04/12/06 Time: 14:37:33 CPU Time: 0 0: 0:34.73 ( 34.73 sec) Binary
 2371     Restart information has been written to I/O unit 2 in DISKW, file name:
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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2418     CPU Time (this time step) = 0.39 sec = 0.00011 hr
 2419     CPU Time (total for run) = 39.24 sec = 0.01090 hr
 2420    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 2387     CPU Time (this time step) = 0.35 sec = 0.00010 hr
 2388     CPU Time (total for run) = 35.44 sec = 0.00984 hr
 2389    ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 3066     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
 3068     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3069     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
 3074    ****************************************************************************
 3075     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3076     * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3077    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
 3035     Date: 04/12/06 Time: 14:37:34 CPU Time: 0 0: 0:35.45 ( 35.45 sec) ASCII
 3037     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3038     Date: 04/12/06 Time: 14:37:34 CPU Time: 0 0: 0:35.46 ( 35.46 sec) Binary
 3043    ****************************************************************************
 3044     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3045     * Completed: 04/12/06 at 14:37:34 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 3046    ****************************************************************************
************

Number of difference sections found: 14
Number of difference records found: 157

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_UP.OUT;1
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BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
    2     ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3     ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
    2     ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3     ** Begun on: 04/12/06 at 14:34:03 Run on: GNR - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   71    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   70     PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_R1_S3_V046_T1200_L_QA0500.INP;2
   71    ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   75      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
   76      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   75      PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_CLOSURE.DAT;1
   76      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   80      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   81      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   80
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   81      ***************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   85      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
   86      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   85
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.SUM;1
   86      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   90      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
   91      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   90
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.BIN;1
   91      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   95      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
   96      ***************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   95
PAA:[ANALYSIS.VMS82.BF2.V500.ES47.TEST12LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.ROT;1
   96      ***************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
  198      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  199      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  200      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  201      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  202      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  203      48 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  204      49 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  205      50 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  206      51 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  207      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  208      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  209      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
  210      55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
  211      56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
  212      57 0 0 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
  213      58 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
  214      59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
  215      60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
  216      61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
  217      62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
  218      63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
  219      64 0 0 CONCST Salt concentration -- simple model kg/m^3
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220     65 0 0 PORSOLID Volume fraction of generated solids dimensionless
221     66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
222     67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
223     68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
224     69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
225     70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
226     71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
227     72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
228     73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
229     74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
230     75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
231     76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
232     77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
233     78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
234     79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
235     80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
236     81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
237     82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
238     83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
239     84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
240     85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
241     86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
242     87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
243     88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
244     89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
245     90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
246     91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
247     92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
248     93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
249     94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
250     95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
251     96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
252     97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
253     98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
254     99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
255     100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
256     101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
257     102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
258     103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
259     104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
260     105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
261     106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
262     107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
263     108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
264     109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
265     110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
266     111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
267     112 0 0 H2OFLOWIN Water inflow rate kg/s
268     113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
269     114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
270     115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
271     116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
272     117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
273     118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
274     119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
275     120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
276     121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
277     122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
278     123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
279     124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 281
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File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
  198     43 0 0 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  199     44 0 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  200     45 0 0 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  201     46 0 0 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  202     47 0 0 CONCFE Fe concentration -- simple model kg/m^3
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   203      48 0 0 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
   204      49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
   205      50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
   206      51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
   207      52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
   208      53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
   209      54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
   210      55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
   211      56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
   212      57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
   213      58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
   214      59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
   215      60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
   216      61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
   217      62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
   218      63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
   219      64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
   220      65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
   221      66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
   222      67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
   223      68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
   224      69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
   225      70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
   226      71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
   227      72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
   228      73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
   229      74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
   230      75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
   231      76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
   232      77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
   233      78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
   234      79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
   235      80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
   236      81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
   237      82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
   238      83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
   239      84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
   240      85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
   241      86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
   242      87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
   243      88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
   244      89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
   245      90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
   246      91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
   247      92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
   248      93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
   249      94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
   250      95 0 0 H2OFLOWIN Water inflow rate kg/s
   251      96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
   252      97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
   253      98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
   254      99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
   255      100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
   256      101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
   257      102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
   258      103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
   259      104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
   260      105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
   261      106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
   262      107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
   264
************************************************************************************************
**************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   835      instead of Input IC's for the Cavities
   836      [0=No, 1=Yes] (ICWASTE) = 0
   838      Uniform Cavity Region
   839      Uniform Cavity Region
   841      ---------------------------------------------------------------------------------
------------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
   818      instead of Input IC's for the Waste
```

```
  819     [0=No, 1=Yes] (ICWASTE) = 0
  821     Uniform Waste Region
  822     Uniform Waste Region
  824     -----------------------------------------------------------------------------------
------------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
  873     TOL = 1.0000E-02
  874     SOCEFFMIN = 1.0000E-03
  876     Fracture model will be used? (KFRACTURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
  857     Fracture model will be used? (KFRACTURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
  975     Densities (DEN(1-4)):
  976     Fe: 7.8700E+03 kg/m3
  977     Fe(OH)2: 3.4000E+03 kg/m3
  978     FeS: 4.7000E+03 kg/m3
  979     Bio: 1.1000E+03 kg/m3
  981     Densities (DEN(5-8)):
  982     MgO: 3.6000E+03 kg/m3
  983     Mg(OH)2: 2.3700E+03 kg/m3
  984     MgCO3: 3.0500E+03 kg/m3
  985     SALT: 2.1700E+03 kg/m3
  987     Will creep closure be used (CLOSURE): F
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
  956     Will creep closure be used (CLOSURE): F
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2336     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 ( 6.32 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2357     Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 ( 8.37 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2360     Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 ( 10.42 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 ( 12.48 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 ( 14.52 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 ( 16.58 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 ( 18.63 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 ( 20.67 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 ( 22.74 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 ( 24.81 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2384     Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 ( 27.48 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2387     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 ( 30.34 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2390     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2393     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 ( 34.44 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2396     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
```

```
 2399     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
 2305     Date: 04/12/06 Time: 14:34:03 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) ASCII
 2307     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2308     Date: 04/12/06 Time: 14:34:03 CPU Time: 0 0: 0: 0.07 ( 0.07 sec) Binary
 2310     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2311     Date: 04/12/06 Time: 14:34:04 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 2313     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2314     Date: 04/12/06 Time: 14:34:05 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
 2316     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2317     Date: 04/12/06 Time: 14:34:06 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
 2319     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2320     Date: 04/12/06 Time: 14:34:07 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
 2322     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2323     Date: 04/12/06 Time: 14:34:09 CPU Time: 0 0: 0: 5.54 ( 5.54 sec) Binary
 2325     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2326     Date: 04/12/06 Time: 14:34:11 CPU Time: 0 0: 0: 7.32 ( 7.32 sec) Binary
 2328     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2329     Date: 04/12/06 Time: 14:34:13 CPU Time: 0 0: 0: 9.10 ( 9.10 sec) Binary
 2331     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2332     Date: 04/12/06 Time: 14:34:14 CPU Time: 0 0: 0:10.89 ( 10.89 sec) Binary
 2334     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2335     Date: 04/12/06 Time: 14:34:16 CPU Time: 0 0: 0:12.68 ( 12.68 sec) Binary
 2337     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2338     Date: 04/12/06 Time: 14:34:18 CPU Time: 0 0: 0:14.45 ( 14.45 sec) Binary
 2340     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2341     Date: 04/12/06 Time: 14:34:20 CPU Time: 0 0: 0:16.23 ( 16.23 sec) Binary
 2343     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2344     Date: 04/12/06 Time: 14:34:22 CPU Time: 0 0: 0:18.02 ( 18.02 sec) Binary
 2346     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2347     Date: 04/12/06 Time: 14:34:23 CPU Time: 0 0: 0:19.80 ( 19.80 sec) Binary
 2349     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2350     Date: 04/12/06 Time: 14:34:25 CPU Time: 0 0: 0:21.58 ( 21.58 sec) Binary
 2352     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2353     Date: 04/12/06 Time: 14:34:27 CPU Time: 0 0: 0:23.88 ( 23.88 sec) Binary
 2355     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2356     Date: 04/12/06 Time: 14:34:30 CPU Time: 0 0: 0:26.36 ( 26.36 sec) Binary
 2358     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2359     Date: 04/12/06 Time: 14:34:32 CPU Time: 0 0: 0:28.14 ( 28.14 sec) Binary
 2361     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2362     Date: 04/12/06 Time: 14:34:33 CPU Time: 0 0: 0:29.91 ( 29.91 sec) Binary
 2364     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2365     Date: 04/12/06 Time: 14:34:35 CPU Time: 0 0: 0:31.68 ( 31.68 sec) Binary
 2368     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2415     CPU Time (this time step) = 0.41 sec = 0.00011 hr
 2416     CPU Time (total for run) = 38.51 sec = 0.01070 hr
 2417    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
 2384     CPU Time (this time step) = 0.35 sec = 0.00010 hr
 2385     CPU Time (total for run) = 33.45 sec = 0.00929 hr
 2386    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 3063     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) ASCII
 3065     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3066     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) Binary
 3071    ****************************************************************************
 3072     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3073     * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3074    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
 3032     Date: 04/12/06 Time: 14:34:37 CPU Time: 0 0: 0:33.49 ( 33.49 sec) ASCII
 3034     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3035     Date: 04/12/06 Time: 14:34:37 CPU Time: 0 0: 0:33.49 ( 33.49 sec) Binary
 3040    ****************************************************************************
 3041     * End of BRAGFLO Version: 5.0 Revised: 01/22/03 *
 3042     * Completed: 04/12/06 at 14:34:37 Run on: GNR - ALPHA AXP OpenVMS V8.2 *
 3043    ****************************************************************************
************
```

```
Number of difference sections found: 14
Number of difference records found: 155

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_VMS82_V500_ES47_R1_S3_V046_T1200_L.OUT;1
```

A.12.4 Test Case 12: Output Difference Files, BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF, BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF, BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF, and BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF

BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
    3    ** Begun on: 02/14/07 at 11:08:16 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
    3    ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   70    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   71    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   70    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   71    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   75    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_CLOSURE.DAT;1
   76    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   75    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
   76    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   80    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   81    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   80    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   81    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   85    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.SUM;1
   86    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   85    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
   86    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   90    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.BIN;1
   91    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   90    PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
   91    ****************************************************************************
```

```
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
   95      PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.ROT;1
   96      ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   95      PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
   96      ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
 2336      Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338      Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339      Date: 02/14/07 Time: 11:08:17 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2341      Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342      Date: 02/14/07 Time: 11:08:19 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
 2344      Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345      Date: 02/14/07 Time: 11:08:21 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
 2347      Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348      Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 0: 6.62 ( 6.62 sec) Binary
 2350      Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351      Date: 02/14/07 Time: 11:08:26 CPU Time: 0 0: 0: 9.31 ( 9.31 sec) Binary
 2353      Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354      Date: 02/14/07 Time: 11:08:29 CPU Time: 0 0: 0:12.00 ( 12.00 sec) Binary
 2356      Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2357      Date: 02/14/07 Time: 11:08:32 CPU Time: 0 0: 0:14.69 ( 14.69 sec) Binary
 2359      Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2360      Date: 02/14/07 Time: 11:08:34 CPU Time: 0 0: 0:17.39 ( 17.39 sec) Binary
 2362      Time Step No. = 40 Elapsed Time = 2.986599E-01 days
 2363      Date: 02/14/07 Time: 11:08:37 CPU Time: 0 0: 0:20.08 ( 20.08 sec) Binary
 2365      Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2366      Date: 02/14/07 Time: 11:08:40 CPU Time: 0 0: 0:22.78 ( 22.78 sec) Binary
 2368      Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2369      Date: 02/14/07 Time: 11:08:43 CPU Time: 0 0: 0:25.47 ( 25.47 sec) Binary
 2371      Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2372      Date: 02/14/07 Time: 11:08:45 CPU Time: 0 0: 0:28.15 ( 28.15 sec) Binary
 2374      Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2375      Date: 02/14/07 Time: 11:08:48 CPU Time: 0 0: 0:30.86 ( 30.86 sec) Binary
 2377      Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2378      Date: 02/14/07 Time: 11:08:51 CPU Time: 0 0: 0:33.56 ( 33.56 sec) Binary
 2380      Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2381      Date: 02/14/07 Time: 11:08:53 CPU Time: 0 0: 0:36.25 ( 36.25 sec) Binary
 2383      Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2384      Date: 02/14/07 Time: 11:08:56 CPU Time: 0 0: 0:38.96 ( 38.96 sec) Binary
 2386      Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2387      Date: 02/14/07 Time: 11:08:59 CPU Time: 0 0: 0:41.65 ( 41.65 sec) Binary
 2389      Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2390      Date: 02/14/07 Time: 11:09:01 CPU Time: 0 0: 0:44.35 ( 44.35 sec) Binary
 2392      Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2393      Date: 02/14/07 Time: 11:09:04 CPU Time: 0 0: 0:47.05 ( 47.05 sec) Binary
 2395      Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2396      Date: 02/14/07 Time: 11:09:07 CPU Time: 0 0: 0:49.74 ( 49.74 sec) Binary
 2398      Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2399      Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 0:52.42 ( 52.42 sec) Binary
 2402      Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2336      Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338      Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339      Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2341      Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342      Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2344      Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345      Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 2347      Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348      Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 ( 4.86 sec) Binary
 2350      Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351      Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 ( 6.83 sec) Binary
 2353      Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354      Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 ( 8.80 sec) Binary
 2356      Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2357      Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 ( 10.77 sec) Binary
 2359      Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2360      Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 ( 12.74 sec) Binary
 2362      Time Step No. = 40 Elapsed Time = 2.986599E-01 days
```

```
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 ( 14.71 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 ( 16.69 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 ( 18.68 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 ( 20.65 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 ( 22.64 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 ( 24.63 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 ( 26.60 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2384     Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 ( 28.58 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2387     Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 ( 30.56 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2390     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 ( 32.53 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2393     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 ( 34.50 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2396     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
 2398     Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2399     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
 2402     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
 2418     CPU Time (this time step) = 0.54 sec = 0.00015 hr
 2419     CPU Time (total for run) = 53.50 sec = 0.01486 hr
 2420    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2418     CPU Time (this time step) = 0.39 sec = 0.00011 hr
 2419     CPU Time (total for run) = 39.24 sec = 0.01090 hr
 2420    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1
 3066     Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 0:53.53 ( 53.53 sec) ASCII
 3068     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3069     Date: 02/14/07 Time: 11:09:11 CPU Time: 0 0: 0:53.54 ( 53.54 sec) Binary
 3074     ****************************************************************************
 3075     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3076     * Completed: 02/14/07 at 11:09:11 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
 3077     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 3066     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
 3068     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3069     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
 3074     ****************************************************************************
 3075     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3076     * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3077     ****************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 58

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES40_TEST12_UPPER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
```

BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
    3     ** Begun on: 02/14/07 at 11:10:42 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
```

```
    3     ** Begun on: 02/14/07 at 11:06:09 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   71     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_TEST12_UPPER.INP;1
   71     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   81     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   81     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.SUM;1
   86     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.SUM;1
   86     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.BIN;1
   91     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.BIN;1
   91     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.ROT;1
   96     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.ROT;1
   96     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
 2336     Date: 02/14/07 Time: 11:10:42 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:10:42 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:10:43 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:10:45 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:10:47 CPU Time: 0 0: 0: 5.27 ( 5.27 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 7.41 ( 7.41 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:10:52 CPU Time: 0 0: 0: 9.57 ( 9.57 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2357     Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 0:11.71 ( 11.71 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2360     Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 0:13.85 ( 13.85 sec) Binary
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 2362     Time Step No. = 40 Elapsed Time = 2.986599E-01 days
 2363     Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 0:16.00 ( 16.00 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2366     Date: 02/14/07 Time: 11:11:00 CPU Time: 0 0: 0:18.15 ( 18.15 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2369     Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0: 0:20.27 ( 20.27 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2372     Date: 02/14/07 Time: 11:11:05 CPU Time: 0 0: 0:22.42 ( 22.42 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2375     Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 0:24.59 ( 24.59 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2378     Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0: 0:26.76 ( 26.76 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2381     Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 0:28.91 ( 28.91 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2384     Date: 02/14/07 Time: 11:11:13 CPU Time: 0 0: 0:31.08 ( 31.08 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2387     Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 0:33.26 ( 33.26 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2390     Date: 02/14/07 Time: 11:11:18 CPU Time: 0 0: 0:35.43 ( 35.43 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2393     Date: 02/14/07 Time: 11:11:20 CPU Time: 0 0: 0:37.59 ( 37.59 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2396     Date: 02/14/07 Time: 11:11:22 CPU Time: 0 0: 0:39.75 ( 39.75 sec) Binary
 2398     Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2399     Date: 02/14/07 Time: 11:11:24 CPU Time: 0 0: 0:41.91 ( 41.91 sec) Binary
 2402     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2336     Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:06:09 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:06:10 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 4.86 ( 4.86 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 6.83 ( 6.83 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 8.80 ( 8.80 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.227174E-02 days
 2357     Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0:10.77 ( 10.77 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 9.856761E-02 days
 2360     Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:12.74 ( 12.74 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.986599E-01 days
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:14.71 ( 14.71 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.917827E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:16.69 ( 16.69 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 1.860850E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:18.68 ( 18.68 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 4.029466E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:20.65 ( 20.65 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 8.305259E+00 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:22.64 ( 22.64 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.330873E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:24.63 ( 24.63 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 1.831220E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:26.60 ( 26.60 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.331568E+01 days
 2384     Date: 02/14/07 Time: 11:06:38 CPU Time: 0 0: 0:28.58 ( 28.58 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 2.831915E+01 days
 2387     Date: 02/14/07 Time: 11:06:40 CPU Time: 0 0: 0:30.56 ( 30.56 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.332262E+01 days
 2390     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:32.53 ( 32.53 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 3.832609E+01 days
 2393     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:34.50 ( 34.50 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.332956E+01 days
 2396     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
 2398     Time Step No. = 100 Elapsed Time = 4.833304E+01 days
 2399     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:38.45 ( 38.45 sec) Binary
 2402     Restart information has been written to I/O unit 2 in DISKW, file name:
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
```

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 2418     CPU Time (this time step) = 0.43 sec = 0.00012 hr
 2419     CPU Time (total for run) = 42.78 sec = 0.01188 hr
 2420    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 2418     CPU Time (this time step) = 0.39 sec = 0.00011 hr
 2419     CPU Time (total for run) = 39.24 sec = 0.01090 hr
 2420    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1
 3066     Date: 02/14/07 Time: 11:11:25 CPU Time: 0 0: 0:42.80 ( 42.80 sec) ASCII
 3068     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3069     Date: 02/14/07 Time: 11:11:25 CPU Time: 0 0: 0:42.81 ( 42.81 sec) Binary
 3074     ****************************************************************************
 3075     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3076     * Completed: 02/14/07 at 11:11:25 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
 3077     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
 3066     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) ASCII
 3068     Time Step No. = 102 Elapsed Time = 5.003472E+01 days
 3069     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:39.25 ( 39.25 sec) Binary
 3074     ****************************************************************************
 3075     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3076     * Completed: 02/14/07 at 11:06:48 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3077     ****************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 58

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES45_TEST12_UPPER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_UPPER]BF2_QB0600_ES47_TEST12_UPPER.OUT;1
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BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
    3     ** Begun on: 02/14/07 at 11:08:22 Run on: CSN - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
    3     ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   71     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   71     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
   76     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   81     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   81     ****************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.SUM;1
   86     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
   86     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.BIN;1
   91     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
   91     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.ROT;1
   96     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
   96     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 2336     Date: 02/14/07 Time: 11:08:23 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:08:23 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:08:24 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:08:25 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:08:27 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:08:28 CPU Time: 0 0: 0: 5.60 ( 5.60 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:08:31 CPU Time: 0 0: 0: 8.27 ( 8.27 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2357     Date: 02/14/07 Time: 11:08:33 CPU Time: 0 0: 0:10.94 ( 10.94 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2360     Date: 02/14/07 Time: 11:08:36 CPU Time: 0 0: 0:13.63 ( 13.63 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2363     Date: 02/14/07 Time: 11:08:39 CPU Time: 0 0: 0:16.29 ( 16.29 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2366     Date: 02/14/07 Time: 11:08:41 CPU Time: 0 0: 0:18.96 ( 18.96 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2369     Date: 02/14/07 Time: 11:08:44 CPU Time: 0 0: 0:21.64 ( 21.64 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2372     Date: 02/14/07 Time: 11:08:47 CPU Time: 0 0: 0:24.33 ( 24.33 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2375     Date: 02/14/07 Time: 11:08:49 CPU Time: 0 0: 0:27.01 ( 27.01 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2378     Date: 02/14/07 Time: 11:08:52 CPU Time: 0 0: 0:29.70 ( 29.70 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2381     Date: 02/14/07 Time: 11:08:55 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2384     Date: 02/14/07 Time: 11:08:58 CPU Time: 0 0: 0:35.86 ( 35.86 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2387     Date: 02/14/07 Time: 11:09:02 CPU Time: 0 0: 0:39.59 ( 39.59 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2390     Date: 02/14/07 Time: 11:09:05 CPU Time: 0 0: 0:42.28 ( 42.28 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2393     Date: 02/14/07 Time: 11:09:07 CPU Time: 0 0: 0:44.96 ( 44.96 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2396     Date: 02/14/07 Time: 11:09:10 CPU Time: 0 0: 0:47.65 ( 47.65 sec) Binary
 2399     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2336     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
```

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 2339     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 ( 6.32 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2357     Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 ( 8.37 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2360     Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 ( 10.42 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 ( 12.48 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 ( 14.52 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 ( 16.58 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 ( 18.63 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 ( 20.67 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 ( 22.74 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 ( 24.81 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2384     Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 ( 27.48 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2387     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 ( 30.34 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2390     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2393     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 ( 34.44 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2396     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
 2399     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 2415     CPU Time (this time step) = 0.53 sec = 0.00015 hr
 2416     CPU Time (total for run) = 50.31 sec = 0.01398 hr
 2417     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2415     CPU Time (this time step) = 0.41 sec = 0.00011 hr
 2416     CPU Time (total for run) = 38.51 sec = 0.01070 hr
 2417     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1
 3063     Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 0:50.36 ( 50.36 sec) ASCII
 3065     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3066     Date: 02/14/07 Time: 11:09:13 CPU Time: 0 0: 0:50.36 ( 50.36 sec) Binary
 3071     ****************************************************************************
 3072     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3073     * Completed: 02/14/07 at 11:09:13 Run on: CSN - ALPHA AXP OpenVMS V8.2 *
 3074     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 3063     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) ASCII
 3065     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3066     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) Binary
 3071     ****************************************************************************
 3072     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3073     * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3074     ****************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 56

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
```

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PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER_OUT.DIF;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES40_TEST12_LOWER.OUT;1-
PAA:[ANALYSIS.BF.QB0600.ES40.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
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BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF

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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
    3     ** Begun on: 02/14/07 at 11:10:50 Run on: CCR - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
    3     ** Begun on: 02/14/07 at 11:06:12 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   71     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   70     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_TEST12_LOWER.INP;1
   71     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_CLOSURE.DAT;1
   76     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   75     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_CLOSURE.DAT;1
   76     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   81     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   80     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   81     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.SUM;1
   86     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   85     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.SUM;1
   86     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.BIN;1
   91     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   90     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.BIN;1
   91     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.ROT;1
   96     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
   95     PAA:[ANALYSIS.BF.QB0600.ES47.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.ROT;1
   96     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
 2336     Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 0.11 ( 0.11 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:10:50 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
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 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:10:51 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:10:52 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:10:53 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:10:54 CPU Time: 0 0: 0: 4.49 ( 4.49 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:10:56 CPU Time: 0 0: 0: 6.61 ( 6.61 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2357     Date: 02/14/07 Time: 11:10:58 CPU Time: 0 0: 0: 8.73 ( 8.73 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2360     Date: 02/14/07 Time: 11:11:01 CPU Time: 0 0: 0:10.85 ( 10.85 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2363     Date: 02/14/07 Time: 11:11:03 CPU Time: 0 0: 0:12.98 ( 12.98 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2366     Date: 02/14/07 Time: 11:11:05 CPU Time: 0 0: 0:15.11 ( 15.11 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2369     Date: 02/14/07 Time: 11:11:07 CPU Time: 0 0: 0:17.27 ( 17.27 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2372     Date: 02/14/07 Time: 11:11:09 CPU Time: 0 0: 0:19.40 ( 19.40 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2375     Date: 02/14/07 Time: 11:11:11 CPU Time: 0 0: 0:21.54 ( 21.54 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2378     Date: 02/14/07 Time: 11:11:13 CPU Time: 0 0: 0:23.69 ( 23.69 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2381     Date: 02/14/07 Time: 11:11:16 CPU Time: 0 0: 0:25.82 ( 25.82 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2384     Date: 02/14/07 Time: 11:11:18 CPU Time: 0 0: 0:28.59 ( 28.59 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2387     Date: 02/14/07 Time: 11:11:21 CPU Time: 0 0: 0:31.57 ( 31.57 sec) Binary
 2389     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2390     Date: 02/14/07 Time: 11:11:23 CPU Time: 0 0: 0:33.72 ( 33.72 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2393     Date: 02/14/07 Time: 11:11:26 CPU Time: 0 0: 0:35.87 ( 35.87 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2396     Date: 02/14/07 Time: 11:11:28 CPU Time: 0 0: 0:38.01 ( 38.01 sec) Binary
 2399     Restart information has been written to I/O unit 2 in DISKW, file name:
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2336     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) ASCII
 2338     Time Step No. = 0 Elapsed Time = 0.000000E+00 days
 2339     Date: 02/14/07 Time: 11:06:12 CPU Time: 0 0: 0: 0.10 ( 0.10 sec) Binary
 2341     Time Step No. = 5 Elapsed Time = 8.207031E-05 days
 2342     Date: 02/14/07 Time: 11:06:13 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2344     Time Step No. = 10 Elapsed Time = 3.325290E-04 days
 2345     Date: 02/14/07 Time: 11:06:14 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
 2347     Time Step No. = 15 Elapsed Time = 1.096868E-03 days
 2348     Date: 02/14/07 Time: 11:06:15 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
 2350     Time Step No. = 20 Elapsed Time = 3.429447E-03 days
 2351     Date: 02/14/07 Time: 11:06:16 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
 2353     Time Step No. = 25 Elapsed Time = 1.054791E-02 days
 2354     Date: 02/14/07 Time: 11:06:18 CPU Time: 0 0: 0: 6.32 ( 6.32 sec) Binary
 2356     Time Step No. = 30 Elapsed Time = 3.179889E-02 days
 2357     Date: 02/14/07 Time: 11:06:20 CPU Time: 0 0: 0: 8.37 ( 8.37 sec) Binary
 2359     Time Step No. = 35 Elapsed Time = 8.965424E-02 days
 2360     Date: 02/14/07 Time: 11:06:22 CPU Time: 0 0: 0:10.42 ( 10.42 sec) Binary
 2362     Time Step No. = 40 Elapsed Time = 2.641632E-01 days
 2363     Date: 02/14/07 Time: 11:06:24 CPU Time: 0 0: 0:12.48 ( 12.48 sec) Binary
 2365     Time Step No. = 45 Elapsed Time = 7.898418E-01 days
 2366     Date: 02/14/07 Time: 11:06:26 CPU Time: 0 0: 0:14.52 ( 14.52 sec) Binary
 2368     Time Step No. = 50 Elapsed Time = 2.098515E+00 days
 2369     Date: 02/14/07 Time: 11:06:28 CPU Time: 0 0: 0:16.58 ( 16.58 sec) Binary
 2371     Time Step No. = 55 Elapsed Time = 5.152845E+00 days
 2372     Date: 02/14/07 Time: 11:06:30 CPU Time: 0 0: 0:18.63 ( 18.63 sec) Binary
 2374     Time Step No. = 60 Elapsed Time = 1.010202E+01 days
 2375     Date: 02/14/07 Time: 11:06:32 CPU Time: 0 0: 0:20.67 ( 20.67 sec) Binary
 2377     Time Step No. = 65 Elapsed Time = 1.510549E+01 days
 2378     Date: 02/14/07 Time: 11:06:34 CPU Time: 0 0: 0:22.74 ( 22.74 sec) Binary
 2380     Time Step No. = 70 Elapsed Time = 2.010897E+01 days
 2381     Date: 02/14/07 Time: 11:06:36 CPU Time: 0 0: 0:24.81 ( 24.81 sec) Binary
 2383     Time Step No. = 75 Elapsed Time = 2.511244E+01 days
 2384     Date: 02/14/07 Time: 11:06:39 CPU Time: 0 0: 0:27.48 ( 27.48 sec) Binary
 2386     Time Step No. = 80 Elapsed Time = 3.011591E+01 days
 2387     Date: 02/14/07 Time: 11:06:42 CPU Time: 0 0: 0:30.34 ( 30.34 sec) Binary
```

```
 2389     Time Step No. = 85 Elapsed Time = 3.511938E+01 days
 2390     Date: 02/14/07 Time: 11:06:44 CPU Time: 0 0: 0:32.38 ( 32.38 sec) Binary
 2392     Time Step No. = 90 Elapsed Time = 4.012285E+01 days
 2393     Date: 02/14/07 Time: 11:06:46 CPU Time: 0 0: 0:34.44 ( 34.44 sec) Binary
 2395     Time Step No. = 95 Elapsed Time = 4.512633E+01 days
 2396     Date: 02/14/07 Time: 11:06:48 CPU Time: 0 0: 0:36.48 ( 36.48 sec) Binary
 2399     Restart information has been written to I/O unit 2 in DISKW, file name:
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
 2415     CPU Time (this time step) = 0.43 sec = 0.00012 hr
 2416     CPU Time (total for run) = 40.13 sec = 0.01115 hr
 2417    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 2415     CPU Time (this time step) = 0.41 sec = 0.00011 hr
 2416     CPU Time (total for run) = 38.51 sec = 0.01070 hr
 2417    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1
 3063     Date: 02/14/07 Time: 11:11:30 CPU Time: 0 0: 0:40.16 ( 40.16 sec) ASCII
 3065     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3066     Date: 02/14/07 Time: 11:11:30 CPU Time: 0 0: 0:40.17 ( 40.17 sec) Binary
 3071    ********************************************************************************
 3072     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3073     * Completed: 02/14/07 at 11:11:30 Run on: CCR - ALPHA AXP OpenVMS V8.2 *
 3074    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
 3063     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) ASCII
 3065     Time Step No. = 100 Elapsed Time = 5.003472E+01 days
 3066     Date: 02/14/07 Time: 11:06:50 CPU Time: 0 0: 0:38.53 ( 38.53 sec) Binary
 3071    ********************************************************************************
 3072     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 3073     * Completed: 02/14/07 at 11:06:50 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 3074    ********************************************************************************
************

Number of difference sections found: 10
Number of difference records found: 56

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES45_TEST12_LOWER.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST12_LOWER]BF2_QB0600_ES47_TEST12_LOWER.OUT;1
```

A.13 Test Case 13 Files

A.13.1 Test Case 13: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST13_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST13.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_Test13.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_Test13.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_Test13.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_Test13.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_Test13.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST13_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST13.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_Test13.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_Test13.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_Test13.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_Test13.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_Test13.ROT
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST13_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST13.INP
$   DEFINE bf2_uifold$input working_dir:BF2_TEST13_QA0500.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_Test13.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_Test13.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_Test13.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_Test13.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_Test13.ROT
```

```
$   set noverify

            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.13.2 Test Case 13: Input File, BF2_QB0600_TEST13.INP

```
 1996 BF2_TEST6:  QA Test Case #6.
 FILE FLAGS...ASCII, BINARY, SUMMARY, RESTART OUT, RESTART INPUT
 T T T T F
 MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
    2   31   27    1
 TSTART,    TMAX,       MAXSTEPS
  -1.5779E+08   3.1557E+11  10000
 DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
   8.6400E+00   8.6400E-04   1.7280E+09   1.2500E+00  1     1.0000E+00
 TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
    3
   0.0000E+00   8.6400E+02
   3.1666E+09   8.6400E+02
   3.1666E+10   8.6400E+02
 IPRTYPEASC IPRTYPEBIN IPRTYPERST UNITSI UNITSO
    2    0    2     'SI'     'SI'
 ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    5
 USER REQUESTED PRINTOUT TIMES  (0, 200, 900, 1001, 10000 YEARS)
  0.0000E+00   6.3114E+09   2.840123E+10   3.1558848E+10   3.1557E+11
 BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
   20
 RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
    1
 USER REQUESTED RESTART TIMES
  3.1557E+11
 ASCII PRINT FLAGS
 1 1 1 1 0  1 1 1 1 1  1 1 1 1 1  1 1 1 1 1  0 0 0 0 1
 1 1 1 1 1  1 1 1 1 1  1 0 0 1 1  1 1 0 0 0  0 0 1 1 1
 1 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 BINARY PRINT FLAGS
 1 1 1 1 0  1 1 1 1 1  1 1 1 1 1  1 1 1 1 1  0 0 0 0 1
 1 1 1 1 1  1 1 1 1 1  1 0 0 1 1  1 1 0 0 0  0 0 1 1 1
 1 0 0 0 0  0 1 1 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0  0 0 0 0 0
 0 0 0 0 0  0 0
 HISTORY VARIABLE OUTPUT
    8
    1    4    NAME=BRINE PRESSURE
11   8   1   17   8   1   11   1   1   22   6   1
    2    1    NAME=GAS PRESSURE
22  12   1
   10    6    NAME=GAS DENSITY
 7   6   1    7  12   1    7  14   1   25   6   1   25  12   1   25  14   1
   18   30    NAME=GAS SATURATION
 8   8   1    9   8   1   10   8   1   11   8   1   12   8   1   13   8   1
14   8   1    8   9   1    9   9   1   10   9   1   11   9   1   12   9   1
13   9   1   14   9   1    8  10   1    9  10   1   10  10   1   11  10   1
12  10   1   13  10   1   14  10   1   16   8   1   17   8   1   18   8   1
16   9   1   17   9   1   18   9   1   16  10   1   17  10   1   18  10   1
   31  140    NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, X-DIRECTION
 3   6   1    3  12   1    3  14   1    3  19   1    3  20   1    3  21   1
 3  22   1    3  23   1    3  24   1    3  25   1    3  26   1    3  27   1
30   6   1   30  12   1   30  14   1   30  19   1   30  20   1   30  21   1
30  22   1   30  23   1   30  24   1   30  25   1   30  26   1   30  27   1
 8   6   1    8  12   1    8  14   1   25   6   1   25  12   1   25  14   1
```

```
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   32    69      NAME=TIME-AVERAGE INTERBLOCK BRINE FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
   34   140      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, X-DIRECTION
 3  6  1     3 12  1     3 14  1     3 19  1     3 20  1     3 21  1
 3 22  1     3 23  1     3 24  1     3 25  1     3 26  1     3 27  1
30  6  1    30 12  1    30 14  1    30 19  1    30 20  1    30 21  1
30 22  1    30 23  1    30 24  1    30 25  1    30 26  1    30 27  1
 8  6  1     8 12  1     8 14  1    25  6  1    25 12  1    25 14  1
16  8  1    16  9  1    16 10  1    19  8  1    19  9  1    19 10  1
 8  8  1     8  9  1     8 10  1    15  8  1    15  9  1    15 10  1
22  6  1    22  7  1    22  8  1    22  9  1    22 10  1    22 11  1
22 12  1    22 13  1    22 14  1    22 15  1    22 16  1    22 17  1
22 18  1    22 19  1    22 20  1    22 21  1    22 22  1    22 23  1
22 24  1    22 25  1    22 26  1    22 27  1    23  6  1    23  7  1
23  8  1    23  9  1    23 10  1    23 11  1    23 12  1    23 13  1
23 14  1    23 15  1    23 16  1    23 17  1    23 18  1    23 19  1
23 20  1    23 21  1    23 22  1    23 23  1    23 24  1    23 25  1
23 26  1    23 27  1    11  1  1    11  2  1    11  3  1    11  4  1
11  5  1    11  6  1    11  7  1    11  8  1    11  9  1    11 10  1
11 11  1    11 12  1    11 13  1    11 14  1    11 15  1    11 16  1
11 17  1    11 18  1    11 19  1    11 20  1    11 21  1    11 22  1
11 23  1    11 24  1    11 25  1    11 26  1    11 27  1    12  1  1
12  2  1    12  3  1    12  4  1    12  5  1    12  6  1    12  7  1
12  8  1    12  9  1    12 10  1    12 11  1    12 12  1    12 13  1
12 14  1    12 15  1    12 16  1    12 17  1    12 18  1    12 19  1
12 20  1    12 21  1    12 22  1    12 23  1    12 24  1    12 25  1
12 26  1    12 27  1
   35    69      NAME=TIME-AVERAGE INTERBLOCK GAS FLOW, Y-DIRECTION
 8 11  1     9 11  1    10 11  1    11 11  1    12 11  1    13 11  1
14 11  1     8  8  1     9  8  1    10  8  1    11  8  1    12  8  1
13  8  1    14  8  1    16 11  1    17 11  1    18 11  1    16  8  1
17  8  1    18  8  1    22  6  1    22  7  1    22  8  1    22  9  1
22 10  1    22 11  1    22 12  1    22 13  1    22 14  1    22 15  1
22 16  1    22 17  1    22 18  1    22 19  1    22 20  1    22 21  1
22 22  1    22 23  1    22 24  1    22 25  1    22 26  1    22 27  1
11  1  1    11  2  1    11  3  1    11  4  1    11  5  1    11  6  1
11  7  1    11  8  1    11  9  1    11 10  1    11 11  1    11 12  1
11 13  1    11 14  1    11 15  1    11 16  1    11 17  1    11 18  1
11 19  1    11 20  1    11 21  1    11 22  1    11 23  1    11 24  1
11 25  1    11 26  1    11 27  1
 MONITOR PARAMETER VALUES AT GRIDBLOCK(S)
 T
 NUMBER OF MONITOR BLOCKS
    3
 MONITOR BLOCKS (I,J,K)
   11    10     1
```

```
  17   10    1
  25   12    1
 GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   1    2    1    7
 GRID DATA CARDS: GRID BLOCK DX'S
 1.500000E+04  5.000000E+03  1.750000E+03  5.000000E+02  1.000000E+02  4.000000E+01
 1.000000E+01  4.380000E+01  1.000000E+01  2.000000E+00  2.407879E-01  2.000000E+00
 1.000000E+01  4.380000E+01  4.000000E+01  1.000000E+02  4.950000E+02  1.000000E+02
 8.000000E+01  2.830000E+02  5.000000E+01  1.000000E+01  6.000000E+01  5.000000E+02
 1.000000E+01  4.000000E+01  1.000000E+02  5.000000E+02  1.750000E+03  5.000000E+03
 1.500000E+04
 GRID DATA CARDS: GRID BLOCK DY'S
 2.728000E+00  4.737200E+01  1.391600E+02  5.000000E+01  1.100000E+01  8.500000E-01
 1.380000E+00  1.320800E+00  1.320800E+00  1.320800E+00  2.617600E+00  2.700000E-01
 9.060000E+00  1.800000E-01  6.098000E+01  1.585300E+02  1.585300E+02  5.080000E+00
 3.600000E+01  7.700000E+00  2.480000E+01  8.500000E+00  1.730000E+01  1.060000E+02
 4.330000E+01  1.566000E+01  1.000000E-01
 GRID DATA CARDS: GRID BLOCK DZ'S
 6.131430E+04  2.131430E+04  7.814300E+03  3.314300E+03  2.114300E+03  1.834300E+03
 1.734300E+03  1.262000E+02  2.880000E+01  4.800000E+00  2.407879E-01  4.800000E+00
 2.880000E+01  1.262000E+02  1.000000E+01  1.323000E+02  1.435000E+02  1.416000E+02
 1.890000E+01  1.890000E+01  1.890000E+01  9.500000E+00  2.050000E+01  5.310000E+01
 1.258900E+03  1.458900E+03  2.018900E+03  3.928000E+03  8.226900E+03  2.172690E+04
 6.172690E+04
 GRID BLOCK ELEVATIONS
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02  1.293640E+02
 1.293640E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02  1.544140E+02
 1.544140E+02
-3.441824E+01  1.401058E+02  1.990077E+02  2.186417E+02  2.238774E+02  2.250991E+02
 2.255354E+02  2.260048E+02  2.264743E+02  2.265790E+02  2.266000E+02  2.266209E+02
 2.267256E+02  2.271951E+02  2.279264E+02  2.291480E+02  2.343401E+02  2.395322E+02
 2.411029E+02  2.442706E+02  2.471764E+02  2.477000E+02  2.483108E+02  2.531975E+02
 2.576478E+02  2.580841E+02  2.593058E+02  2.645415E+02  2.841755E+02  3.430774E+02
 5.176014E+02
 6.014737E+01  2.346714E+02  2.935733E+02  3.132073E+02  3.184430E+02  3.196646E+02
 3.201010E+02  3.205704E+02  3.210399E+02  3.211446E+02  3.211656E+02  3.211865E+02
 3.212912E+02  3.217607E+02  3.224920E+02  3.237137E+02  3.289057E+02  3.340978E+02
 3.356685E+02  3.388362E+02  3.417420E+02  3.422656E+02  3.428764E+02  3.477631E+02
 3.522134E+02  3.526497E+02  3.538714E+02  3.591071E+02  3.787411E+02  4.376429E+02
 6.121671E+02
 9.064270E+01  2.651668E+02  3.240687E+02  3.437026E+02  3.489384E+02  3.501600E+02
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 6.426624E+02
 9.656680E+01  2.710909E+02  3.299928E+02  3.496267E+02  3.548625E+02  3.560841E+02
 3.565204E+02  3.569899E+02  3.574594E+02  3.575641E+02  3.575851E+02  3.576060E+02
 3.577107E+02  3.581802E+02  3.589114E+02  3.601331E+02  3.653252E+02  3.705173E+02
 3.720880E+02  3.752556E+02  3.781614E+02  3.786850E+02  3.792958E+02  3.841825E+02
 3.886329E+02  3.890692E+02  3.902909E+02  3.955266E+02  4.151606E+02  4.740624E+02
 6.485865E+02
 9.768167E+01  2.722057E+02  3.311076E+02  3.507415E+02  3.559773E+02  3.571989E+02
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 6.510515E+02
 1.003524E+02  2.748765E+02  3.337784E+02  3.534124E+02  3.586481E+02  3.598698E+02
 3.603061E+02  3.607755E+02  3.612450E+02  3.613497E+02  3.613707E+02  3.613916E+02
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3.758736E+02	3.790413E+02	3.819471E+02	3.824706E+02	3.830815E+02	3.879681E+02
3.924185E+02	3.928548E+02	3.940765E+02	3.993122E+02	4.189462E+02	4.778481E+02
6.523721E+02					
1.016731E+02	2.761971E+02	3.350990E+02	3.547329E+02	3.599687E+02	3.611903E+02
3.616266E+02	3.620961E+02	3.625656E+02	3.626703E+02	3.626913E+02	3.627122E+02
3.628169E+02	3.632864E+02	3.640177E+02	3.652393E+02	3.704314E+02	3.756235E+02
3.771942E+02	3.803618E+02	3.832677E+02	3.837913E+02	3.844021E+02	3.892888E+02
3.937391E+02	3.941754E+02	3.953971E+02	4.006328E+02	4.202668E+02	4.791686E+02
6.536927E+02					
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3.635956E+02	3.640650E+02	3.645345E+02	3.646392E+02	3.646602E+02	3.646811E+02
3.647858E+02	3.652553E+02	3.659866E+02	3.672083E+02	3.724003E+02	3.775924E+02
3.791631E+02	3.823307E+02	3.852366E+02	3.857602E+02	3.863710E+02	3.912577E+02
3.957080E+02	3.961443E+02	3.973660E+02	4.026017E+02	4.222357E+02	4.811375E+02
6.556616E+02					
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3.650392E+02	3.655086E+02	3.659781E+02	3.660828E+02	3.661038E+02	3.661247E+02
3.662294E+02	3.666989E+02	3.674301E+02	3.686518E+02	3.738439E+02	3.790360E+02
3.806067E+02	3.837743E+02	3.866802E+02	3.872037E+02	3.878146E+02	3.927012E+02
3.971516E+02	3.975879E+02	3.988096E+02	4.040453E+02	4.236793E+02	4.825811E+02
6.571052E+02					
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3.697034E+02	3.701729E+02	3.706424E+02	3.707471E+02	3.707680E+02	3.707890E+02
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3.852710E+02	3.884386E+02	3.913445E+02	3.918680E+02	3.924789E+02	3.973655E+02
4.018159E+02	4.022522E+02	4.034739E+02	4.087096E+02	4.283435E+02	4.872454E+02
6.617695E+02					
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3.755130E+02	3.759825E+02	3.767137E+02	3.779354E+02	3.831275E+02	3.883196E+02
3.898903E+02	3.930579E+02	3.959637E+02	3.964873E+02	3.970981E+02	4.019848E+02
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6.663888E+02					
1.449445E+02	3.194685E+02	3.783704E+02	3.980044E+02	4.032401E+02	4.044618E+02
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8.067025E+02					
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6.731423E+02	6.736117E+02	6.740812E+02	6.741859E+02	6.742068E+02	6.742278E+02
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6.887098E+02	6.918774E+02	6.947833E+02	6.953069E+02	6.959177E+02	7.008043E+02
7.052547E+02	7.056910E+02	7.069127E+02	7.121484E+02	7.317823E+02	7.906842E+02
9.652083E+02					
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7.870472E+02	7.874836E+02	7.887053E+02	7.939410E+02	8.135750E+02	8.724768E+02
1.047001E+03					
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7.977001E+02					
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8.195501E+02					
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8.358001E+02					
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1.039010E+03
WELL DATA
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DIRICHLET CONDITIONS
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 31  20   1   T   F   8.520000E+05   0.000000E+00
  1  22   1   T   F   9.000000E+05   0.000000E+00
 31  22   1   T   F   9.000000E+05   0.000000E+00
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  2  27   1   T   T   1.013250E+05   2.000000E-01
  3  27   1   T   T   1.013250E+05   2.000000E-01
  4  27   1   T   T   1.013250E+05   2.000000E-01
  5  27   1   T   T   1.013250E+05   2.000000E-01
  6  27   1   T   T   1.013250E+05   2.000000E-01
  7  27   1   T   T   1.013250E+05   2.000000E-01
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 14  27   1   T   T   1.013250E+05   2.000000E-01
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 20  27   1   T   T   1.013250E+05   2.000000E-01
 21  27   1   T   T   1.013250E+05   2.000000E-01
 22  27   1   T   T   1.013250E+05   2.000000E-01
 23  27   1   T   T   1.013250E+05   2.000000E-01
 24  27   1   T   T   1.013250E+05   2.000000E-01
 25  27   1   T   T   1.013250E+05   2.000000E-01
 26  27   1   T   T   1.013250E+05   2.000000E-01
 27  27   1   T   T   1.013250E+05   2.000000E-01
 28  27   1   T   T   1.013250E+05   2.000000E-01
 29  27   1   T   T   1.013250E+05   2.000000E-01
 30  27   1   T   T   1.013250E+05   2.000000E-01
 31  27   1   T   T   1.013250E+05   2.000000E-01
GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
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GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
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  0.000000E+00
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   3.0000E-01   5.0000E+05
 MAXIMUM ALLOWABLE VARIABLE CHANGES: DSAT_MAX  DPRES_MAX
   1.0000E+00   1.0000E+07
 CONVERGENGE TEST FLAG: 0=OR/1=AND
    1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  RELAXED CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL_SAT   FTOL_PRES:  NORMAL RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 FTOL_SAT   FTOL_PRES:  RELAXED RESIDUAL' TOLERANCE
   1.0000E-02   1.0000E-02
 GAS TRANSPORT TOLERANCES
   1.0000E-05   1.0000E-05   1.0000E-05   1.0000E-05
 LINEAR EQUATION SOLVER TYPE
 LU
 ITMAX, IRESETMAX, IJACINT, LSCALE, P_SCALE, LVARSWITCH
    8   40    1   T     1.0000E+07 F
 IUPRPFLAG, IUPMFLAG, DT_REDU, ITRAVE, IMFRAVE
    9    9   5.0000E-01    1    0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41    1    5    9    9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-10   1.0000E-10
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-12   1.0000E-04
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
 4
 START TIME FOR MAP 1
-1.5779E+08
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
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11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
  4  4  4  4  4  4  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2 10  2  2  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1  7  7  7  7  7  7  7 10  8  8  8 10  9  9 10  9  9  1  1
  1  1  1  1  1
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  5  5  5  5  5
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  6  6  6  6  6
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  START TIME FOR MAP 2
  0.0000E+00
  MATERIAL TYPE GRID MAP
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 12 12 12 11 11
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  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1
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  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
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  1  1  1  1  1  1  1 13 13 13 13 13 13 13 35 14 14 14 35 23 23 25 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  1  1
  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 25 15 15  5  5
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  START TIME FOR MAP 3
  3.1557E+09
  MATERIAL TYPE GRID MAP
 11 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
 12 12 12 11 11
 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
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  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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  1  1  1  1  1
  4  4  4  4  4  4  4 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  4  4
  4  4  4  4  4
  1  1  1  1  1  1  1 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
  1  1  1  1  1
  1  1  1  1  1  1  1 13 13 13 13 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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  1  1  1  1  1
  5  5  5  5  5  5  5 15 15 15 15 15 15 15 15 15 15 15 15 15 15 26 15 15  5  5
  5  5  5  5  5
  1  1  1  1  1  1  1 38 38 38 38 38 38 38 38 38 38 38 38 38 38 26 38 38  1  1
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  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6 26  6  6  6  6
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22 22 22 22 22
 START TIME FOR MAP 4
 3.1557E+10
 MATERIAL TYPE GRID MAP
11 11 12 12 12 12 12 12 12 12 37 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12
12 12 12 11 11
11 11 11 11 11 11 11 11 11 11 37 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
11 11 11 11 11
 1  1  1  1  1  1  1  1  1  1 37  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
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 4  4  4  4  4
 1  1  1  1  1  1  1 15 15 15 37 15 15 15 15 15 15 15 15 15 15 26 15 15  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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 1  1  1  1  1  1  1 13 13 13 37 13 13 13 36 14 14 14 36 23 23 26 24 24  1  1
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22 22 22 22 22
   #      NAME
   1      S_HALITE
   2      DRZ_0
   3      TRANS_0
   4      S_MB139
   5      S_ANH_AB
   6      S_MB138
   7      CAVITY_1
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  8      CAVITY_2
  9      CAVITY_3
 10      CAVITY_4
 11      IMPERM_Z
 12      CASTILER
 13      WAS_AREA
 14      REPOSIT
 15      DRZ_1
 16      UNNAMED
 17      CULEBRA
 18      TAMARISK
 19      MAGENTA
 20      FORTYNIN
 21      DEWYLAKE
 22      SANTAROS
 23      BACKFILL
 24      EXP_AREA
 25      SHFT_B_1
 26      SHFT_B_2
 27      SHFT_L_1
 28      SHFT_L_2
 29      SHFT_U_1
 30      SHFT_U_2
 31      SHFT_LS1
 32      SHFT_LS2
 33      SHFT_US1
 34      SHFT_US2
 35      PAN_S_1
 36      PAN_S_2
 37      BOREHOLE
 38      TRANS_1
 39      CAVITY_5
 NWST
 2
 MAT_WASTEI   MAT_WASTE
 7  8
13 13
 NDRZ
 0
 NMATRESET
 5
 MATRESET
 7  8  9  10  39
 BORE HOLE MATERIAL NUMBER
 0
 RESET TIME,  ICWASTE
 0.0000E+00    1
 POWASTEIC
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 1.013250E+05
 SOWASTEIC
 0.000000E+00
 0.000000E+00
 0.000000E+00
 0.250000E+00
 0.200000E+00
 PRESDRZ

 NBORERESET
  0
 # LAMBDA       SOR          SGR
 1 2.832000E-01 3.819000E-01 2.395000E-01
 2 2.832000E-01 0.000000E+00 0.000000E+00
 3 2.832000E-01 0.000000E+00 0.000000E+00
 4 7.425000E+00 5.074000E-02 8.257000E-02
 5 7.425000E+00 5.074000E-02 8.257000E-02
 6 7.425000E+00 5.074000E-02 8.257000E-02
 7 7.000000E-01 0.000000E+00 0.000000E+00
 8 7.000000E-01 0.000000E+00 0.000000E+00
 9 7.000000E-01 0.000000E+00 0.000000E+00
10 7.000000E-01 0.000000E+00 0.000000E+00
11 1.000000E+00 0.000000E+00 0.000000E+00
12 7.000000E-01 2.000000E-01 2.000000E-01
```

13	3.681000E-01	2.927000E-01	1.087000E-01
14	3.681000E-01	2.927000E-01	1.087000E-01
15	2.832000E-01	0.000000E+00	0.000000E+00
16	7.000000E-01	2.000000E-01	2.000000E-01
17	7.000000E-01	2.000000E-01	2.000000E-01
18	7.000000E-01	2.000000E-01	2.000000E-01
19	7.000000E-01	2.000000E-01	2.000000E-01
20	7.000000E-01	2.000000E-01	2.000000E-01
21	7.000000E-01	2.000000E-01	2.000000E-01
22	7.000000E-01	2.000000E-01	2.000000E-01
23	7.000000E-01	0.000000E+00	0.000000E+00
24	7.000000E-01	0.000000E+00	0.000000E+00
25	7.000000E-01	2.000000E-01	2.000000E-01
26	7.000000E-01	2.000000E-01	2.000000E-01
27	7.000000E-01	2.000000E-01	2.000000E-01
28	7.000000E-01	2.000000E-01	2.000000E-01
29	7.000000E-01	2.000000E-01	2.000000E-01
30	7.000000E-01	2.000000E-01	2.000000E-01
31	7.000000E-01	2.000000E-01	2.000000E-01
32	7.000000E-01	2.000000E-01	2.000000E-01
33	7.000000E-01	2.000000E-01	2.000000E-01
34	7.000000E-01	2.000000E-01	2.000000E-01
35	7.000000E-01	2.000000E-01	2.000000E-01
36	7.000000E-01	2.000000E-01	2.000000E-01
37	7.000000E-01	2.000000E-01	0.000000E+00
38	2.832000E-01	0.000000E+00	0.000000E+00
39	7.000000E-01	0.000000E+00	0.000000E+00

#	SBMIN	PBMIN	PCMAX	PCT_A	PCT_EXP	KRP	KPC	KTP
1	4.009950E-01	1.013250E+05	1.000000E+08	5.918000E+06	0.000000E+00	4	2	0
2	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
3	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
4	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
5	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
6	5.327700E-02	1.013250E+05	1.000000E+08	2.360479E-03	-3.460000E-01	4	2	0
7	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
8	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
9	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
10	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
11	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
12	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
13	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
14	3.073350E-01	1.013250E+05	1.000000E+08	5.818192E-01	-3.460000E-01	1	4	0
15	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
16	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
17	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
18	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
19	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
20	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
21	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
22	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
23	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
24	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
25	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
26	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
27	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
28	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
29	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
30	2.100000E-01	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
31	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
32	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
33	2.100000E-01	1.013250E+05	1.000000E+08	1.539033E+06	0.000000E+00	4	2	0
34	2.100000E-01	1.013250E+05	1.000000E+08	7.946718E+03	0.000000E+00	4	2	0
35	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
36	2.100000E-01	1.013250E+05	1.000000E+08	5.600000E-01	-3.460000E-01	4	2	0
37	2.100000E-01	1.013200E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
38	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0
39	0.000000E+00	1.013250E+05	1.000000E+08	0.000000E+00	0.000000E+00	4	1	0

#	PERMX	PERMY	PERMZ	POROSITY	COMPRES
1	1.318259E-24	1.318259E-24	1.318259E-24	2.256000E-02	8.339604E-09
2	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
3	1.000000E-15	1.000000E-15	1.000000E-15	2.256000E-02	3.656062E-08
4	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
5	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
6	2.041735E-18	2.041735E-18	2.041735E-18	3.968000E-02	1.280173E-09
7	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00
8	1.000000E-10	1.000000E-10	1.000000E-10	1.000000E+00	0.000000E+00

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  9 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 10 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
 11 0.000000E+00 0.000000E+00 0.000000E+00  5.000000E-03  0.000000E+00
 12 1.330453E-11 1.330453E-11 1.330453E-11  5.200000E-03  1.923077E-07
 13 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
 14 5.584699E-12 5.584699E-12 5.584699E-12  8.810400E-01  1.203124E-09
 15 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
 16 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
 17 2.648502E-13 2.648502E-13 2.648502E-13  1.460000E-01  1.417160E-09
 18 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
 19 1.096478E-16 1.096478E-16 1.096478E-16  9.000000E-02  2.199962E-09
 20 0.000000E+00 0.000000E+00 0.000000E+00  2.000000E-01  0.000000E+00
 21 9.332549E-16 9.332549E-16 9.332549E-16  1.500000E-01  6.666667E-08
 22 1.000000E-10 1.000000E-10 1.000000E-10  1.750000E-01  5.714286E-08
 23 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
 24 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  0.000000E+00
 25 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 26 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 27 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 28 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 29 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
 30 1.000000E-12 1.000000E-12 1.000000E-12  2.500000E-01  4.000000E-09
 31 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
 32 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
 33 2.454706E-19 2.454706E-19 2.454706E-19  5.000000E-02  2.000000E-08
 34 1.000000E-12 1.000000E-12 1.000000E-12  5.000000E-02  2.000000E-08
 35 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 36 1.000000E-12 1.000000E-12 1.000000E-12  7.500000E-02  1.333333E-08
 37 1.659588E-13 1.659588E-13 1.659588E-13  3.700000E-01  0.000000E+00
 38 1.000000E-15 1.000000E-15 1.000000E-15  2.256000E-02  3.656062E-08
 39 1.000000E-10 1.000000E-10 1.000000E-10  1.000000E+00  0.000000E+00
  TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
  1.000000E-02 1.000000E-03
  NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
  0
  FRACTURE MODEL DATA TO FOLLOW :T OR F
  T
  NFRAC
  3
  # DELTA_PI     DELTA_PF       FRAC_PHI      FRAC_EXP      IFRX IFRY IFRZ
  4 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01     1    1    0
  5 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01     1    1    0
  6 1.390000E+06 2.500000E+06 4.968000E-02 8.973829E+01     1    1    0
  KLINKENBERG EFFECT TO BE USED? True or False
  T
  BKLINK         EXPKLINK
   9.80000E-01  -3.30000E-01
  GRAVITY CONSTANT (GSTD) AND GAS CONSTANT R
  9.79D+00 8.314510D+00
  REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
   3.00150E+02  1.01320E+05
  SALT(WT.%)  DEN_BR  KGSAT  IDGAS   COMPR_BR WMSALT WMH2O
  2.9600E+01 1.2300E+03    1     0       2.5000E-10 58.442468D-03  18.01528D-03
  VISC_BR    VISC_GAS
   1.80000E-03  8.92000E-06
  GAS DENSITY DATA: =0 COMPUTE; =1 INTERPOLATE
  1
  GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
  1.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
  GAS MOLECULAR WIEGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
  2.01588D-03  44.0098D-03  16.04276D-03  28.01348D-03  34.08188D-03  31.9988D-03
  NUMBER OF GAS COMPONENTS ACTUALL USED (NGAS) AND COMPONET NUMBER (N1GAS)
  1  1
  RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
  43.60D+00  304.15D+00  190.63D+00  126.15D+00 373.55D+00  154.77D+00
  RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
  20.47D+05  73.76D+05  46.17D+05  33.94D+05  90.07D+05  50.80D+05
  RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
  0.00D+00  0.231D+00  0.010D+00  0.045D+00  0.100D+00  0.019D+00
  RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2, WMH2
  43.6D+00  20.47D+05  2.01588D-03
  RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
  0.42747D+00  0.08664D+00
  RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
  BINARY INTERACTION PARAMETERS FOR H2
+0.0000D+00  -0.3426D+00  -0.0222D+00  +0.0978D+00  0.0000D+00  +0.0000D+00
```

```
 BINARY INTERACTION PARAMETERS FOR CO2
 -0.3426D+00  +0.0000D+00  +0.0933D+00  -0.0315D+00  +0.0989D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR CH4
 -0.0222D+00  +0.0933D+00  +0.0000D+00  +0.0278D+00  +0.0850D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR N2
 +0.0978D+00  -0.0315D+00  +0.0278D+00  +0.0000D+00  +0.1696D+00  -0.0078D+00
 BINARY INTERACTION PARAMETERS FOR H2S
 +0.0000D+00  +0.0989D+00  +0.0850D+00  +0.1696D+00  +0.0000D+00  +0.0000D+00
 BINARY INTERACTION PARAMETERS FOR O2
+0.0000D+00  +0.0000D+00  +0.0000D+00  -0.0078D+00  +0.000D+00  +0.0000D+00
 IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
 1
 RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO), INTRINSIC
  1.9045188518798551E-10   2.7932414729320935E-09  T
 HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
  1.000E-03   2.0000E-01
 RATE CONSTANTS: BRUCITEI AND BRUCITEH
  0.0000E+00  0.0000E+00
 RATE COEFFICIENTS: RXH2S AND RXCO2
  1.1100E+00  0.0000E+00
  1.1100E+00  0.0000E+00
 CHEMISTRY CUTOFF SATURATION:  SOCMIN
  0.0000E+00
 REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
  2.01588D-03  18.01528D-03  55.847D-03  3.0026E-02
 REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
  8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
 S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
  1.3081E+00  -1.3838E+00  -1.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  -1.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
 REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, [C6-H10-O5]/6)
  7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
 REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
  3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
 WICKING SATURATION, HUMID RATE SMOOTHING, CONC SMOOTHING,   ALPHARXN
  0.0000E+00  T  F   1.0000E+03
 CREEP CLOSURE?
  T
 NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
   1    1    2
 CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM
 4   1.4800E+07   3.1557E+12   1  F
 MODPERM PARAMETERS
 5.5847E-12   0.0000E+00
 NUMBER OF MATERIAL REGIONS FOR CLOSURE
   2
 #  MAT NO.   MODEL 1=WASTE-FILLED, 2=BACKFILLED, 4=WASTE (1996)
 1   13         4
 2   14         4
 WILL RADIONUCLIDE DECAY BE CALCULATED? T or F
 F
 WILL TRANSPORT BE CALCULATED? T or F
 F
 WILL RADIOLYSIS BE CALCULATED? T or F
 F
 BRAGFLO GAS COMPONENT TRANSPORT MODEL
 F
```

A.13.3 Test Case 13: Output Difference File, BF2_QB0600_ES47_TEST13_OUT.DIF

Note: differences due to new input: information being reported in the output files are highlighted in bold italics.

```
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
    2      ** Beginning of BRAGFLO Version: 6.0 Revised: 01/15/07 **
    3      ** Begun on: 02/13/07 at 14:12:33 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
```

```
    4      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
    2      ** Beginning of BRAGFLO Version: 5.0 Revised: 01/22/03 **
    3      ** Begun on: 05/18/06 at 10:11:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
   62      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   61      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_TEST13_QA0500.INP;1
   62      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_CLOSURE.DAT;1
   67      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   66      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_CLOSURE.DAT;1
   67      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   72      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   71      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   72      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
   77      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   76      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.SUM;1
   77      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
   82      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   81      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.BIN;1
   82      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
   87      ************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
   86      PAA:[ANALYSIS.VMS82.BF.V500.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.ROT;1
   87      ************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
  198      43 0 0 RXNR(I,J,K,5) Fe(OH)2 sulfidation rate mol/s
  199      44 0 0 RXNR(I,J,K,6) Fe sulfidation rate mol/s
  200      45 0 0 RXNR(I,J,K,7) MgO hydration rate mol/s
  201      46 0 0 RXNR(I,J,K,8) Mg(OH)2 carbonation rate mol/s
  202      47 0 0 RXNR(I,J,K,9) MgO carbonation rate mol/s
  203      48 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
  204      49 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
  205      50 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
  206      51 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
  207      52 0 0 QR(I,J,K,5) Fe(OH)2 generation rate -- simple model kg/(s*m^3)
  208      53 0 0 QR(I,J,K,6) FeS generation rate -- simple model kg/(s*m^3)
  209      54 0 0 QR(I,J,K,7) MgO generation rate -- simple model kg/(s*m^3)
```

```
55 0 0 QR(I,J,K,8) Mg(OH)2 generation rate -- simple model kg/(s*m^3)
56 0 0 QR(I,J,K,9) MgCO3 generation rate -- simple model kg/(s*m^3)
57 1 1 CONCFE(I,J,K,1) Fe concentration -- simple model kg/m^3
58 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
59 0 0 CONCFE(I,J,K,2) Fe(OH)2 concentration -- simple model kg/m^3
60 0 0 CONCFE(I,J,K,3) FeS concentration -- simple model kg/m^3
61 0 0 CONCMG(I,J,K,1) MgO concentration -- simple model kg/m^3
62 0 0 CONCMG(I,J,K,2) Mg(OH)2 concentration -- simple model kg/m^3
63 0 0 CONCMG(I,J,K,3) MgCO3 concentration -- simple model kg/m^3
64 0 0 CONCST Salt concentration -- simple model kg/m^3
65 0 0 PORSOLID Volume fraction of generated solids dimensionless
66 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
67 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
68 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
69 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
70 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
71 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
72 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
73 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
74 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
75 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
76 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
77 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
78 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
79 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
80 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
81 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
82 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
83 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
84 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
85 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
86 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
87 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
88 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
89 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
90 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
91 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
92 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
93 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
94 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
95 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
96 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
97 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
98 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
99 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
100 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
101 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
102 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
103 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
104 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
105 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
106 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
107 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
108 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
109 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
110 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
111 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
112 0 0 H2OFLOWIN Water inflow rate kg/s
113 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
114 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
115 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
116 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
117 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
118 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
119 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
120 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
121 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
122 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
123 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
124 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
```

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 281
*****************************************************************************************
************************
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
 198     43 1 1 QR(I,J,K,1) H2 generation rate -- simple model kg/(s*m^3)
 199     44 1 1 QR(I,J,K,2) Brine consumption rate -- simple model kg/(s*m^3)
 200     45 1 1 QR(I,J,K,3) Fe consumption rate -- simple model kg/(s*m^3)
 201     46 1 1 QR(I,J,K,4) C6-H10-O5 consumption rate -- simple model kg/(s*m^3)
 202     47 1 1 CONCFE Fe concentration -- simple model kg/m^3
 203     48 1 1 CONCBIO C6-H10-O5 concentration -- simple model kg/m^3
 204     49 0 0 GENRAT( 1,I,J,K) H2 generation rate -- reaction path model kg/(s*m^3)
 205     50 0 0 GENRAT( 2,I,J,K) CO2 generation rate -- reaction path model kg/(s*m^3)
 206     51 0 0 GENRAT( 3,I,J,K) CH4 generation rate -- reaction path model kg/(s*m^3)
 207     52 0 0 GENRAT( 4,I,J,K) N2 generation rate -- reaction path model kg/(s*m^3)
 208     53 0 0 GENRAT( 5,I,J,K) H2S generation rate -- reaction path model kg/(s*m^3)
 209     54 0 0 GENRAT( 6,I,J,K) O2 generation rate -- reaction path model kg/(s*m^3)
 210     55 0 0 GENRAT( 7,I,J,K) H2O generation rate -- reaction path model kg/(s*m^3)
 211     56 0 0 GENRAT( 8,I,J,K) H2SO4 generation rate -- reaction path model kg/(s*m^3)
 212     57 0 0 GENRAT( 9,I,J,K) HNO3 generation rate -- reaction path model kg/(s*m^3)
 213     58 0 0 GENRAT(10,I,J,K) C6-H10-O5 consumption rate -- reaction path model kg/(s*m^3)
 214     59 0 0 GENRAT(11,I,J,K) Fe consumption rate -- reaction path model kg/(s*m^3)
 215     60 0 0 GENRAT(12,I,J,K) FeS2_F generation rate -- reaction path model kg/(s*m^3)
 216     61 0 0 GENRAT(13,I,J,K) FeS2_O generation rate -- reaction path model kg/(s*m^3)
 217     62 0 0 GENRAT(14,I,J,K) FeCO3_F generation rate -- reaction path model kg/(s*m^3)
 218     63 0 0 GENRAT(15,I,J,K) FeCO3_O generation rate -- reaction path model kg/(s*m^3)
 219     64 0 0 GENRAT(16,I,J,K) Fe(OH)2 generation rate -- reaction path model kg/(s*m^3)
 220     65 0 0 GENRAT(17,I,J,K) FeO(OH) generation rate -- reaction path model kg/(s*m^3)
 221     66 0 0 GENRAT(18,I,J,K) Fe3O4 generation rate -- reaction path model kg/(s*m^3)
 222     67 0 0 GENRAT(19,I,J,K) FeS generation rate -- reaction path model kg/(s*m^3)
 223     68 0 0 GENRAT(20,I,J,K) CaO generation rate -- reaction path model kg/(s*m^3)
 224     69 0 0 GENRAT(21,I,J,K) Ca(OH)2 generation rate -- reaction path model kg/(s*m^3)
 225     70 0 0 GENRAT(22,I,J,K) CaCO3 generation rate -- reaction path model kg/(s*m^3)
 226     71 0 0 GENRAT(23,I,J,K) H2 generation rate -- radiolysis kg/(s*m^3)
 227     72 0 0 CONCRXN( 1,I,J,K) H2 concentration -- reaction path model kg/m^3
 228     73 0 0 CONCRXN( 2,I,J,K) CO2 concentration -- reaction path model kg/m^3
 229     74 0 0 CONCRXN( 3,I,J,K) CH4 concentration -- reaction path model kg/m^3
 230     75 0 0 CONCRXN( 4,I,J,K) N2 concentration -- reaction path model kg/m^3
 231     76 0 0 CONCRXN( 5,I,J,K) H2S concentration -- reaction path model kg/m^3
 232     77 0 0 CONCRXN( 6,I,J,K) O2 concentration -- reaction path model kg/m^3
 233     78 0 0 CONCRXN( 7,I,J,K) H2O concentration -- reaction path model kg/m^3
 234     79 0 0 CONCRXN( 8,I,J,K) H2SO4 concentration -- reaction path model kg/m^3
 235     80 0 0 CONCRXN( 9,I,J,K) HNO3 concentration -- reaction path model kg/m^3
 236     81 0 0 CONCRXN(10,I,J,K) C6-H10-O5 concentration -- reaction path model kg/m^3
 237     82 0 0 CONCRXN(11,I,J,K) Fe concentration -- reaction path model kg/m^3
 238     83 0 0 CONCRXN(12,I,J,K) FeS2_F concentration -- reaction path model kg/m^3
 239     84 0 0 CONCRXN(13,I,J,K) FeS2_O concentration -- reaction path model kg/m^3
 240     85 0 0 CONCRXN(14,I,J,K) FeCO3_F concentration -- reaction path model kg/m^3
 241     86 0 0 CONCRXN(15,I,J,K) FeCO3_O concentration -- reaction path model kg/m^3
 242     87 0 0 CONCRXN(16,I,J,K) Fe(OH)2 concentration -- reaction path model kg/m^3
 243     88 0 0 CONCRXN(17,I,J,K) FeO(OH) concentration -- reaction path model kg/m^3
 244     89 0 0 CONCRXN(18,I,J,K) Fe3O4 concentration -- reaction path model kg/m^3
 245     90 0 0 CONCRXN(19,I,J,K) FeS concentration -- reaction path model kg/m^3
 246     91 0 0 CONCRXN(20,I,J,K) CaO concentration -- reaction path model kg/m^3
 247     92 0 0 CONCRXN(21,I,J,K) Ca(OH)2 concentration -- reaction path model kg/m^3
 248     93 0 0 CONCRXN(22,I,J,K) CaCO3 concentration -- reaction path model kg/m^3
 249     94 0 0 CONCRXN(23,I,J,K) H2 concentration -- radiolysis kg/m^3
 250     95 0 0 H2OFLOWIN Water inflow rate kg/s
 251     96 0 0 B_MASS_CUM(1) Total isotope mass from Waste Region 1 kg
 252     97 0 0 B_CONC_CUM(1) Total isotope conc from Waste Region 1 kg/m^3
 253     98 0 0 S_MASS_CUM(1) Total solid isotope mass from Waste Region 1 kg
 254     99 0 0 B_MASS_CUM(2) Total isotope mass from Waste Region 2 kg
 255     100 0 0 B_CONC_CUM(2) Total isotope conc from Waste Region 2 kg/m^3
 256     101 0 0 S_MASS_CUM(2) Total solid isotope mass from Waste Region 2 kg
 257     102 0 0 B_MASS( 1,1) Mass of isotope 1 from Waste Region 1 kg
 258     103 0 0 B_MASS( 1,2) Mass of isotope 1 from Waste Region 2 kg
 259     104 0 0 B_CONC( 1,1) Conc of isotope 1 from Waste Region 1 kg/m^3
 260     105 0 0 B_CONC( 1,2) Conc of isotope 1 from Waste Region 2 kg/m^3
 261     106 0 0 S_MASS( 1,1) Solid mass of isotope 1 from Waste Region 1 kg
 262     107 0 0 S_MASS( 1,2) Solid mass of isotope 1 from Waste Region 2 kg
 264
*****************************************************************************************
************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
```

```
  714     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  715     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  716     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 39 11 11 11 11 11 11
11 11 11
  717     ------------------------------------------------------------------------------------
-----------------------------------
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
  697     25 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  698     26 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  699     27 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 10 11 11 11 11 11 11
11 11 11
  700     ------------------------------------------------------------------------------------
-----------------------------------
************
************
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
  847     39 CAVITY_5
  849     Error in READMAT: Two indentical waste material regions are specified:
******
File PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
  831     Error in READMAT: Two indentical waste material regions are specified:
************

Number of difference sections found: 10
Number of difference records found: 94

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_VMS82_V500_ES47_TEST13.OUT;1
```

A.13.4 Test Case 13: Output Difference Files, BF2_QB0600_ES40_TEST13_OUT.DIF and BF2_QB0600_ES45_TEST13_OUT.DIF

BF2_QB0600_ES40_TEST13_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
    3     ** Begun on: 02/14/07 at 08:54:49 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
    3     ** Begun on: 02/13/07 at 14:12:33 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_TEST13.INP;1
   62     **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
   62     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_CLOSURE.DAT;1
   67     **************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_CLOSURE.DAT;1
   67     **************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
```

```
   72      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   72      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.SUM;1
   77      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
   77      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.BIN;1
   82      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
   82      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.ROT;1
   87      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
   87      ********************************************************************************
************

Number of difference sections found: 7
Number of difference records found: 7

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES40_TEST13.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
```

BF2_QB0600_ES45_TEST13_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
    3      ** Begun on: 02/14/07 at 09:15:58 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
    3      ** Begun on: 02/13/07 at 14:12:33 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_TEST13.INP;1
   62      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   61      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_TEST13.INP;1
   62      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_CLOSURE.DAT;1
   67      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   66      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_CLOSURE.DAT;1
   67      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
```

```
   72      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   71      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   72      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.SUM;1
   77      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   76      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.SUM;1
   77      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.BIN;1
   82      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   81      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.BIN;1
   82      ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.ROT;1
   87      ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
   86      PAA:[ANALYSIS.BF.QB0600.ES47.TEST13]BF2_QB0600_ES47_TEST13.ROT;1
   87      ********************************************************************************
************

Number of difference sections found: 7
Number of difference records found: 7

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES45_TEST13.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST13]BF2_QB0600_ES47_TEST13.OUT;1
```

A.14 Test Case 14 Files

A.14.1 Test Case 14: Excerpt from .LOG Files

BF2_QB0600_ES40_TEST14_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST14.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES40_TEST14.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES40_TEST14.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES40_TEST14.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES40_TEST14.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES40_TEST14.ROT
$   set noverify

          image name: "BRAGFLO_QB0600"
          image file identification: "P QB0600 6.0"
          image file build identification: ""
          link date/time: 12-FEB-2007 14:57:24.36
          linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES45_TEST14_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST14.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES45_TEST14.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES45_TEST14.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES45_TEST14.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES45_TEST14.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES45_TEST14.ROT
$   set noverify

          image name: "BRAGFLO_QB0600"
          image file identification: "P QB0600 6.0"
          image file build identification: ""
          link date/time: 12-FEB-2007 14:57:24.36
          linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

BF2_QB0600_ES47_TEST14_RUN.LOG

```
  COMMAND_STATUS = "%X109C8299"
$   DEFINE bf2_uif$input    working_dir:BF2_QB0600_TEST14.INP
$   DEFINE bf2_uif$inputcs  working_dir:BF2_CLOSURE.DAT
$   DEFINE bf2_dbg$output   working_dir:BF2_QB0600_ES47_TEST14.OUT
$   DEFINE bf2_dbg$summary  working_dir:BF2_QB0600_ES47_TEST14.SUM
$   DEFINE bf2_bin$output   working_dir:BF2_QB0600_ES47_TEST14.BIN
$   DEFINE bf2_in$restart   working_dir:BF2_QB0600_ES47_TEST14.RIN
$   DEFINE bf2_out$restart  working_dir:BF2_QB0600_ES47_TEST14.ROT
$   set noverify
```

```
            image name: "BRAGFLO_QB0600"
            image file identification: "P QB0600 6.0"
            image file build identification: ""
            link date/time: 12-FEB-2007 14:57:24.36
            linker identification: "A13-03"

$   show symbol bragflo_exe
  BRAGFLO_EXE == "$WP$PRODROOT:[BF.EXE]BRAGFLO_QB0600.EXE"
```

A.14.2 Test Case 14: Input File, BF2_QB0600_TEST14.INP

```
BF2_TEST14_QA0600.INP:  1-D CHEMISTRY TESTCASE
SPECIFY FILES: ASCII OUT, BIN OUT, ASCII SUM, RESTART OUT, RESTART IN
T  T  T  F  F
MODEL TYPE AND NUMBER OF GRID BLOCKS IN X, Y, AND Z
   1   20   1    1
TSTART,   TMAX,       MAXSTEPS
 -1.5778E+08   3.1557E+11  10000
DT_INIT,  DT_MIN,   DT_MAX,   DT_INCR, IAUTODT, TSWITCH
 8.6400E+00   8.6400E-04   1.7280E+08   1.2500E+00  1      1.0000E+00
TIME-STEP CHANGES: NUMBER OF CHANGES, TIME OF CHANGE, DELT USED
   1
  0.0000E+00   8.6400E+02
IPRTYPEASC IPRTYPEBIN IPRTYPERST  UNITSI UNITSO
   2          0          0          'SI'   'SI'
ASCII PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
   16
USER REQUESTED PRINTOUT TIMES
 0.0000E+00   3.1557E+07   3.1557E+08   3.1557E+09   3.1557E+10   3.9447E+10
 4.7336E+10   5.5226E+10   6.3116E+10   9.4673E+10   2.5246E+11   2.6035E+11
 2.6824E+11   2.7613E+11   2.8402E+11   3.1557E+11
BINARY PRINTOUT CONTROLLED BY STEP INTERVAL, IPRNTBIN
  1
RESTART PRINTOUT CONTROLLED BY USER SPECIFIED TIMES
  3000
ASCII PRINT FLAGS
1 1 0 0 0   1 1 1 0 0   1 1 1 0 0   0 1 1 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 1 1   1 1 1 1 1   1 1 1 1 1
1 1 1 1 1   1 1 1 1 1   1 1 1 1 1
BINARY PRINT FLAGS
1 1 0 0 0   1 1 1 0 0   1 1 1 0 0   0 1 1 0 0   0 0 0 0 0
0 0 0 0 0   0 0 0 0 0   0 0 0 1 1   1 1 1 1 1   1 1 1 1 1
1 1 1 1 1   1 1 1 1 1   1 1 1 1 1
NUMBER OF HISTORY VARIABLES;
   0
MONITOR PARAMETER VALUES AT GRIDBLOCKS
T
NUMBER OF MONITOR BLOCKS
3
MONITOR BLOCK (I,J,K)
   2 1 1
   6 1 1
  14 1 1
GRID DATA FLAGS: IDXFLAG, IDYFLAG, IDZFLAG, IDEPTHFLAG
   0    0    0    0
 GRID DATA CARDS: GRID BLOCK DX'S
 1.0
 GRID DATA CARDS: GRID BLOCK DY'S
 1.0
GRID DATA CARDS: GRID BLOCK DZ'S
 1.0
DEPTH
 0.0
WELL DATA
 1
 0.0E+00    2
 5  1  1  1
 INJQ
 0.0  1.E-16  1.0  5.E5
 15  1  1  1
```

```
  PROD
  0.0  0.0  1.E-6  5.E5
 DIRICHLET CONDITIONS
  F    0
 GRID BLOCK BRINE PRESSURE INITIAL CONDITIONS
  20*5.0E+05
 GRID BLOCK BRINE SATURATION INITIAL CONDITIONS
  1*0.999999999 1*0.0D0 1*0.012D0 2*0.999999999 1*0.015D0 3*0.999999999 1*0.015D0 3*0.999999999
1*0.015D0 6*0.999999999
 GRID BLOCK FE CONCENTRATION INITIAL CONDITIONS
  1*0.0 1*1.E+2 11*0.0 1*1.1E+2 6*0.0
 GRID BLOCK CH2O CONCENTRATION INITIAL CONDITIONS
  1*0.0 1*5.E+1 7*0.0 1*4.5E+1 3*0.0 1*5.5E+1 6*0.0
 GRID BLOCK MGO CONCENTRATION INITIAL CONDITIONS
  1*0.0 1*1.E+2 3*0.0 1*1.1E+2 3*0.0 1*0.9E+2 10*0.0
 DSATLIM, DPRESLIM, SATLIMIT
   2.0000E-01  -1.0000E+08   1.0000E-03
 SATNORM, PRESNORM: NOMINAL CHANGE DEPENDENT VARIABLE
   6.0000E-01   1.0000E+06
 DDEPMAX(1)  DDEPMAX(2)
  1.000   1.0E7
 CONVERGENCE TEST FLAG: 0=OR, 1=AND
  1
 EPS_SAT, EPS_PRES:  NORMAL CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 EPS_SAT, EPS_PRES:  LOOSE CONVERGENCE CRITERIA
   3.0000E+00   1.0000E-02
 FTOL SAT FTOL PRESS: NORMAL CONVERGENCE CRITERIA
   1.0000E-02  1.00000E-2
 FTOL SAT FTOL PRESS: LOOSE CONVERGENCE CRITERIA
   1.0000E-02  1.00000E-2
 EPSGAS1  EPSGAS2  EPSGAS3  EPSGAS4: GAS MODEL CONVERGENCE CRITERIA
   1.0E-05  1.0E-05  1.0E-05  1.0E-05
 LINEAR EQUATION SOLVER TYPE
   LU
 ITMAX, IRESETMAX, IJACINT, LSCALE,  P_SCALE, LVARSWTCH
   8   40   1   F  1.0000E+07     F
 IUPRPFLAG, IUPMFFLAG, DT_REDU, ITRAVE, IMFAVE
   9   9   5.0000E-01   1   0
 IJACSWITCH, IJACMIN, IJACRESET, IUPRPLOOSE, IUPMFLOOSE
   41   1   5   9   9
 DHSAT_REL, DHPRES_REL: REL. CHANGE FOR JACOBIAN ELEMENT CALCS
   1.0000E-08   1.0000E-08
 DHSAT_MIN, DHPRES_MIN: MIN. CHANGE ALLOWED FOR JACOBIAN CALCS
   1.0000E-10   1.0000E-02
 NUMBER OF TIMES FOR SPECIFYING MATERIAL MAP
  4
 START TIME FOR MAP 1
 -1.5578E+08
 MATERIAL TYPE GRID MAP
 1*9  1*5  1*6  1*9  1*1  1*4  3*1  1*4  3*1  1*4  1*1  1*9
 1*1  2*2  1*1
 START TIME FOR MAP 2
 0.0000E+00
 MATERIAL TYPE GRID MAP
 1*9  1*8  1*6  1*9  1*1  1*7  3*1  1*7  3*1  1*7  1*1  1*9
 1*1  2*2  1*1
 START TIME FOR MAP 3
 9.4673E+10
 MATERIAL TYPE GRID MAP
 1*9  1*8  1*6  1*9  1*1  1*7  3*1  1*7  3*1  1*7  1*1  1*9
 1*1  2*3  1*1
 START TIME FOR MAP 4
 2.5246E+11
 MATERIAL TYPE GRID MAP
 1*9  1*8  1*6  1*9  1*1  1*7  3*1  1*7  3*1  1*7  1*1  1*9
 1*1  2*3  1*1
  #     NAME
  1     ROCK
  2     ROCK2
  3     ROCK3
  4     CAVITY1
  5     CAVITY2
  6     CAVITY3
  7     WASTE1
  8     WASTE2
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  9      IMPERM
 NWST
  2
 MAT_WASTEI   MAT_WASTE
  4  5
  7  8
 NDRZ
  0
 NMATRESET
  2
 MATRESET
  4  5
 BORE HOLE MATERIAL NUMBER
  0
 RESET TIME,  ICRESET
  0.0000E+00    1
 PORESETIC
  5.0+05
  5.0+05
 SORESETIC
  0.0
  0.0
 PRESDRZ
  0.0
 NBORERESET
 3
 NBORETIME, NMATBORE, MATBORE(NMATBORE)
 3  1  3
 3  1  7
 4  1  8
 PORESET
 6.0E+05
 -1.0E+05
 -1.0E+05
 SORESET
 0.5E+00
 -1.0E+00
 -1.0E+00
 ICHEM
 0
 0
 1
#  LAMBDA        SOR       SGR
1 7.00E-01      0.0       0.0
2 7.00E-01      0.0       0.0
3 7.00E-01      0.0       0.0
4 7.00E-01      0.0       0.0
5 7.00E-01      0.0       0.0
6 7.00E-01      0.0       0.0
7 2.89E+00      0.0       0.0
8 2.89E+00      0.0       0.0
9 7.00E-01      0.0       0.0
#  SBMIN  POMIN     PCMAX     PCTA      PCTEXP     KRP KPC KPT
1  0.0  1.01325E5 1.0000E8   0.0      0.0E+00     4   1   0
2  0.0  1.01325E5 1.0000E8   0.0      0.0E+00     4   1   0
3  0.0  1.01325E5 1.0000E8   0.0      0.0E+00     4   1   0
4  0.0  1.01325E5 1.0000E8   0.0      0.0E+00    11   1   0
5  0.0  1.01325E5 1.0000E8   0.0      0.0E+00    11   1   0
6  0.0  1.01325E5 1.0000E8   0.0      0.0E+00    11   1   0
7  0.0  1.01325E5 1.0000E8   0.26    -3.48E-01   12   1   2
8  0.0  1.01325E5 1.0000E8   0.26    -3.48E-01   12   1   2
9  0.0  1.01325E5 1.0000E8   0.0      0.0E+00     4   1   0
# PERMX        PERMY       PERMZ     POROSITY     COMPRES
1 1.000E-11   1.000E-11  1.000E-11 1.0000E-01   0.0E+00
2 1.000E-11   1.000E-11  1.000E-11 1.0000E-01   0.0E+00
3 1.000E-15   1.000E-17  1.000E-19 1.0000E-01   0.0E+00
4 1.000E-11   1.000E-11  1.000E-11 1.0000E+00   0.0E+00
5 1.000E-11   1.000E-11  1.000E-11 1.0000E+00   0.0E+00
6 1.000E-11   1.000E-11  1.000E-11 1.0000E-01   0.0E+00
7 1.000E-11   1.000E-12  1.000E-13 8.4800E-01   0.0E+00
8 1.000E-11   1.000E-12  1.000E-13 8.4800E-01   0.0E+00
9 1.000E-35   1.000E-35  1.000E-35 1.0000E-03   0.0E+00
 TOL AND SOCEFFMIN FOR PERMEABILITY MODELS 11 & 12
 1.000000E-02 1.000000E-03
 NMATSP, FOR SMOOTH PERMEABILITY TRANSITION MODEL
 2
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  MATSP, MATSPF, TEND, TCHANGE
  2  3  6.3114E+10  3.1557E+10
  3  2  2.8402E+11  3.1557E+10
  NSMPRMC, SMPRMC
  8  0.0000E+00  0.0000E+00  1.10000E+01  -5.0000E+01  1.2000E+02  -1.6000E+02  1.1200E+02  -
3.2000E+01
  2  0.0000E+00  1.0000E+00
  FRACTURE MODEL FLAG
   F
  KLINKENBURG EFFECT
   F
  GRAVITY CONSTANT (GSTD) AND GAS CONSTANT (R)
   9.80665E+00  8.31451E+00
  REFERENCE TEMPERATURE AND PRESSURE FOR DENSITY CALCULATIONS
   3.00150E+02  1.01325E+05
  SALT(WT.%)  DEN_BR  KGSAT  IDGAS,  COMPR_BR,  WMSALT, WMH2O
  3.2400E+01 1.2200E+03    1    0    3.1000E-10 5.8442E-02 1.8015E-02
  VISC_BR   VISC_GAS
   2.10000E-03  8.93389E-06
  GAS DENSITY DATA: =0 OR -2 COMPUTE USING RKS OR IDEAL GAS; =1 OR -1 INTERPOLATE USING RKS OR
IDEAL GAS
  1
  GAS MOLE FRACTIONS FOR H2, CO2, CH4, N2, H2S, AND O2
   1.00000E+00  0.00000E+00  0.00000E+00  0.00000E+00  0.00000E+00  0.00000E+00
  GAS MOLECULAR WEIGHTS FOR H2, CO2, CH4, N2, H2S, AND O2
   2.01588E-03  4.40098E-02  1.60428E-02  2.80135E-02  3.40819E-02  3.19988E-02
  NUMBER OF GAS COMPONENTS ACTUALLY USED (NGAS) AND COMPONENT NUMBER OF GAS (N1GAS)
     1    1
  RKS SPECIFIED: TC FOR H2, CO2, CH4, N2, H2S, AND O2
   4.36000E+01  3.04150E+02  1.90630E+02  1.26150E+02  3.73550E+02  1.54770E+02
  RKS SPECIFIED: PC FOR H2, CO2, CH4, N2, H2S, AND O2
   2.04700E+06  7.37600E+06  4.61700E+06  3.39400E+06  9.00700E+06  5.08000E+06
  RKS SPECIFIED: ACEN FOR H2, CO2, CH4, N2, H2S, AND O2
   0.00000E+00  2.31000E-01  1.00000E-02  4.50000E-02  1.00000E-01  1.90000E-02
  RKS SPECIFIED: SPECIAL PROPERTIES FOR H2- TCH2, PCH2,AND WMH2
   4.36000E+01  2.04700E+06  2.01588E-03
  RKS SPECIFIED: CONSTANTS OMEGAA AND OMEGAB
   4.27470E-01  8.66400E-02
  RKS SPECIFIED: BINARY INTERACTION PARAMETERS, AKIJ(1-MGAS, 1-MGAS)
  BINARY INTERACTION PARAMETER FOR H2
   0.00000E+00 -3.42600E-01 -2.22000E-02  9.78000E-02  0.00000E+00  0.00000E+00
  BINARY INTERACTION PARAMETER FOR CO2
  -3.42600E-01  0.00000E+00  9.33000E-02 -3.15000E-02  9.89000E-02  0.00000E+00
  BINARY INTERACTION PARAMETER FOR CH4
  -2.22000E-02  9.33000E-02  0.00000E+00  2.78000E-02  8.50000E-02  0.00000E+00
  BINARY INTERACTION PARAMETER FOR N2
   9.78000E-02 -3.15000E-02  2.78000E-02  0.00000E+00  1.69600E-01 -7.80000E-03
  BINARY INTERACTION PARAMETER FOR H2S
   0.00000E+00  9.89000E-02  8.50000E-02  1.69600E-01  0.00000E+00  0.00000E+00
  BINARY INTERACTION PARAMETER FOR O2
   0.00000E+00  0.00000E+00  0.00000E+00 -7.80000E-03  0.00000E+00  0.00000E+00
  IGASVAR (2= REACTION PATH,  1= USING AVG. STOICH. , 0= USING WELLS)
  1
  RATE CONSTANTS: CORROSION (RKCOR) AND BIODEGRADATION (RKBIO)
   3.0000E-10   2.0000E-10   T
  HUMIDITY FACTORS: HUMFAC_COR, HUMFAC_BIO
   0.0000E+00   0.0000E+00
  RATE CONSTANTS: BRUCITEI AND BRUCITEH
   1.0000E-09   0.0000E+00
  RATE COEFFICIENTS FOR EACH WASTE AREA: GAS AND CO2
   5.0000E-01   1.0000E+00
   5.0000E-01   1.0000E+00
  CHEMISTRY CUTOFF SATURATION:  SOCMIN
   1.5000E-02
  REACTANT/PRODUCT MOLECULAR WEIGHTS(H2, H2O, Fe, [C6-H10-O5]/6)
   2.01590E-03   1.80150E-02   5.58470E-02   2.70230E-02
  REACTANT/PRODUCT MOLECULAR WEIGHTS(Fe(OH)2, FeS, MgO, Mg(OH)2, MgCO3)
   8.98617E-02   8.79000E-02   4.03044E-02   5.83196E-02  8.43142E-02
  S_H2,S_H2O,S_Fe,S_Bio,S_FeOH2,S_FeS,S_MgO,S_MgOH2,S_MgCO3
   1.0E+00  -2.0E+00  -1.0E+00  0.0E+00  1.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
   0.0E+00  0.0E+00  0.0E+00  -1.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00
   0.0E+00  2.0E+00  0.0E+00  0.0E+00  -1.0E+00  1.0E+00  0.0E+00  0.0E+00  0.0E+00
   0.0E+00  0.0E+00  -1.0E+00  0.0E+00  0.0E+00  1.0E+00  0.0E+00  0.0E+00  0.0E+00
   0.0E+00  -1.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  -1.0E+00  1.0E+00  0.0E+00
   0.0E+00  1.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  -1.0E+00  1.0E+00
   0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  0.0E+00  -1.0E+00  0.0E+00  1.0E+00
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  REACTANT/PRODUCT DENSITIES (Fe, Fe(OH)2, FeS, Bio)
   7.8700E+03   3.40000E+03   4.70000E+03   1.10000E+03
  REACTANT/PRODUCT DENSITIES (MgO, Mg(OH)2, MgCO3, SALT)
   3.6000E+03   2.37000E+03   3.05000E+03   2.17000E+03
  WICKING SATURATION, LARXN,  ALPHARXN
   1.0000E+00   T   T    1.0000E+03
  CREEP CLOSURE? IF TRUE AN EXTERNAL FILE OF CLOSURE DATA IS ALSO EXPECTED
   T
  NKLOS, KLOSINT (0=MOLES,1=PRESSURE) KLOSAVE (1=REGION AVE,2=CELL)
    1    1    2
  CLOSURE PARAMETERS: PRES_LITHO, TIME_OFF, MODPERM, INCLUDE SOLID PRODUCTION
  4   5.0000E+07   3.1557E+12   2   F
  MODPERM PARAMETERS
  5.0000E-01  1.0000E-1
  NUMBER OF MATERIAL REGIONS FOR CLOSURE
    2
  #  MAT NO.   MODEL 1= WASTE-NOBACKFILL, 2=DRIFT-NOBACKFILL, 3=WASTE-BACKFILL 4=JAN_96:WASTE-
NOBACKFILL
  1   7         4
  2   8         4
  WILL RADIONUCLIDE DECAY BE CALCULATED?
   F
  WILL TRANSPORT BE ACTIVATED?
   F
  WILL RADIOLYSIS BE CALCULATED?
   F
  BRAGFLO GAS COMPONENT TRANSPORT MODEL
   F
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A.14.3 Test Case 14: Reference Excel file BF2_QB0600_TEST14.XLS

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
				Initial Conditions			
4	C_{MgO}(Waste 1)	MGOC(2)	1136/2	1.000E+02	1.000E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/2
5	C_{MgO}(Waste 2)	MGOC(6)	1136/6	1.100E+02	1.100E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/4
6	C_{MgO}(Waste 3)	MGOC(10)	1136/10	9.000E+01	9.000E+01	0.000E+00	BF2_QB0600_TEST14.inp 73/6
7	C_{MgO}(Waste 4)	MGOC(14)	1137/4	0.000E+00	0.000E+00	0.000E+00	BF2_QB0600_TEST14.inp 73/7
				Material Change Reset Model			
9	Intrusion Time 1	TIMEBORE(1)	489	9.46730E+10	9.4673E+10	0.000E+00	BF2_QB0600_TEST14.inp 162/1 & 117/1
10	Material 1	MATBORE(1)	490	3	3	0.000E+00	BF2_QB0600_TEST14.inp 162/3
11	Reset Pressure 1	PORESET(1)	491	6.00000E+05	6.0E+05	0.000E+00	BF2_QB0600_TEST14.inp 166/1
12	Reset Saturation 1	SORESET(1)	492	5.00000E-01	5.00E-01	0.000E+00	BF2_QB0600_TEST14.inp 170/1
13	Chemistry Reset Flag 1	ICHEM(1)	493	F	0	NA	BF2_QB0600_TEST14.inp 174/1
14	Intrusion Time 2	TIMEBORE(2)	496	9.46730E+10	9.4673E+10	0.000E+00	BF2_QB0600_TEST14.inp 163/1 & 117/1
15	Material 2	MATBORE(2)	497	7	7	0.000E+00	BF2_QB0600_TEST14.inp 163/3
16	Reset Pressure 2	PORESET(2)	498	Pressure is not reset	-1.00E+05	NA	BF2_QB0600_TEST14.inp 167/1
17	Reset Saturation 2	SORESET(2)	499	Brine Satn is not reset	-1.00E+00	NA	BF2_QB0600_TEST14.inp 171/1
18	Chemistry Reset Flag 2	ICHEM(2)	500	F	0	NA	BF2_QB0600_TEST14.inp 175/1
19	Intrusion Time 3	TIMEBORE(3)	503	2.52460E+11	2.5246E+11	0.000E+00	BF2_QB0600_TEST14.inp 164/1 & 122/1
20	Material 3	MATBORE(3)	504	8	8	0.000E+00	BF2_QB0600_TEST14.inp 164/3
21	Reset Pressure 3	PORESET(3)	505	Pressure is not reset	-1.00E+05	NA	BF2_QB0600_TEST14.inp 168/1
22	Reset Saturation 3	SORESET(3)	506	Brine Satn is not reset	-1.00E+00	NA	BF2_QB0600_TEST14.inp 172/1
23	Chemistry Reset Flag 3	ICHEM(3)	507	T	1	NA	BF2_QB0600_TEST14.inp 176/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
Relative Permeability and Capillary Pressure Model							
25	Brine Saturation (Cavity @999 s)	SATBRINE	CDB	9.04027E-04			
26	Brine Pressure (Cavity @999 s)	PRESBRIN	CDB	5.17104E+05			
27	Brine Saturation (Cavity @3.1557E+09 s)	SATBRINE	1883/7	0.00000E+00			
28	Brine Pressure (Cavity @3.1557E+09 s)	PRESBRIN	1843/4	1.42576E+06			
29	Cavity S_{wr}	SBR	542/3	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 183/3
30	Cavity S_{gr}	SGR	542/4	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 183/4
31	TOL	TOL	546	1.0000E-02	1.00000E-02	0.000E+00	BF2_QB0600_TEST14.inp 208/1
32	Cavity k_{rw} @999 s	RELPERMB	CDB	9.04027E-02	9.04027E-02	0.000E+00	$k_{rw} = \begin{cases} 0 & S_w \le S_{wr} \\ (S_w - S_{wr})/TOL & S_{wr} < S_w \le S_{wr} + TOL \\ 1 & S_{wr} + TOL < S_w \end{cases}$
33	Cavity k_{rw} @3.1557e+09 s	RELPERMB	1858/4	0.00000E+00	0.00000E+00	0.000E+00	
34	Cavity k_{rg} @999 s	RELPERMG	CDB	1.00000E+00	1.00000E+00	0.000E+00	$k_{rg} = \begin{cases} 0 & 1 - S_w \le S_{gr} \\ (1 - S_w - S_{gr})/TOL & S_{gr} < 1 - S_w \le S_{gr} + TOL \\ 1 & S_{gr} + TOL < 1 - S_w \end{cases}$
35	Cavity k_{rg} @3.1557E+09 s	RELPERMG	1863/4	1.00000E+00	1.00000E+00	0.000E+00	
36	Cavity P_c @999 s				0		$P_c=0$
37	Cavity P_c @3.1557E+09 s				0		
38	Cavity P_g @999 s	PRESGAS	CDB	5.17104E+05	5.17104E+05	0.000E+00	$P_g=P_b+P_c$
39	Cavity P_g @3.1557E+09 s	PRESGAS	1848/4	1.42576E+06	1.42576E+06	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
40	Brine Saturation (Waste 1 @3.1557E+09 s)	SATBRINE	1883/3	4.86647E-03			
41	Brine Pressure (Waste 1 @3.1557E+09 s)	PRESBRIN	1843/3	1.37260E+06			
42	X-Permeability (Waste 1 @3.1557E+09 s)	PERMBRX	1868/3	5.27757E-13			
43	Waste 1 λ	XLAMDA	544/2	2.89E+00	2.89E+00	0.000E+00	BF2_QB0600_TEST14.inp 185/2
44	Waste 1 S_{wr}	SBR	544/3	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 185/3
45	Waste 1 S_{gr}	SGR	544/4	0.00E+00	0.0	0.000E+00	BF2_QB0600_TEST14.inp 185/4
46	S_{co}	SOCMIN	702	1.500000E-02	1.5000E-02	0.000E+00	BF2_QB0600_TEST14.inp 272/1
47	S_{emin}	SOCEFFMIN	547	1.0000E-03	1.00000E-03	0.000E+00	BF2_QB0600_TEST14.inp 208/2
48	Waste 1 a	PCT_A	544/13	2.60E-01	0.26	0.000E+00	BF2_QB0600_TEST14.inp 195/5
49	Waste 1 η	PCT_EXP	544/14	-3.48E-01	-3.48E-01	0.000E+00	BF2_QB0600_TEST14.inp 195/6
50	S_e				4.86647E-03		$S_e = \frac{S_w - S_{wr}}{1 - S_{wr}}$
51	Waste 1 k_{rw} @3.1557e+09 s	RELPERMB	1858/3	2.89134E-09	2.89133E-09	6.144E-15	$k_{rw} = S_e^{(2+3\lambda)/\lambda}$
52	S_{eg}				4.86647E-03		$S_{eg} = \frac{S_w - S_{wr}}{1 - S_{gr} - S_{wr}}$
53	Waste 1 k_{rg} @3.1557E+09 s	RELPERMG	1863/3	9.90170E-01	9.90170E-01	1.593E-07	$k_{rg} = (1 - S_{eg})^2 (1 - S_{eg}^{(2+\lambda)/\lambda})$
54	S_{me}				1.00000E-03		$S_{me} = \frac{S_w - (S_{co} - S_{e\min})}{1 - (S_{co} - S_{e\min})}$
55	P_t				4.87042E+03		$P_t = ak^{\eta}$
56	Waste 1 P_c @3.1557E+09 s				5.31653E+04		$P_c = \frac{P_t}{S_{me}^{1/\lambda}}$
57	Waste 1 P_g @3.1557E+09 s	PRESGAS	1848/3	1.42576E+06	1.42577E+06	-5.340E+00	$P_g = P_b + P_c$

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
Saturation Dependent Chemistry Rates							
59	Brine Saturation (Waste 1 @3.1557E+09 s)	SATBRINE	1883/3	4.86647E-03			
60	Brine Saturation (Waste 2 @3.1557E+09 s)	SATBRINE	1883/7	8.26608E-01			
61	Brine Saturation (Waste 3 @3.1557E+09 s)	SATBRINE	1883/11	9.78357E-01			
62	Brine Saturation (Waste 4 @3.1557E+09 s)	SATBRINE	1884/4	9.92682E-01			
63	Brine Saturation (Waste 1 @9.4673E+10 s)	SATBRINE		1.50339E-02			
64	Grid Volume (Waste 1)	GRIDVOL	951/3	1.00000E+00			
65	Grid Volume (Waste 2)	GRIDVOL	951/7	1.00000E+00			
66	Grid Volume (Waste 3)	GRIDVOL	951/11	1.00000E+00			
67	Grid Volume (Waste 4)	GRIDVOL	952/4	1.00000E+00			
68	Initial Fe Concentration (Waste 1)	FECONC	1116/3	1.00000E+02	1.00000E+02	0.000E+00	BF2_QB0600_TEST14.inp 69/2
69	Initial Fe Concentration (Waste 2)	FECONC	1116/7	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 69/3
70	Initial Fe Concentration (Waste 3)	FECONC	1116/11	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 69/3

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
71	Initial Fe Concentration (Waste 4)	FECONC	1117/4	1.10000E+02	1.10000E+02	0.000E+00	BF2_QB0600_TEST14.inp 69/4
72	Initial CH_2O Concentration (Waste 1)	CELLCONC	1121/3	5.00000E+01	5.00000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/2
73	Initial CH_2O Concentration (Waste 2)	CELLCONC	1121/7	0.00000E+00	0.00000E+00	0.000E+00	BF2_QB0600_TEST14.inp 71/3
74	Initial CH_2O Concentration (Waste 3)	CELLCONC	1121/11	4.50000E+01	4.50000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/4
75	Initial CH_2O Concentration (Waste 4)	CELLCONC	1122/4	5.50000E+01	5.50000E+01	0.000E+00	BF2_QB0600_TEST14.inp 71/6
76	Initial MgO Concentration (Waste 1)	MGOC	1136/3	1.00000E+02	1.000E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/2
77	Initial MgO Concentration (Waste 2)	MGOC	1136/7	1.10000E+02	1.100E+02	0.000E+00	BF2_QB0600_TEST14.inp 73/4
78	Initial MgO Concentration (Waste 3)	MGOC	1136/11	9.00000E+01	9.000E+01	0.000E+00	BF2_QB0600_TEST14.inp 73/6
79	Initial MgO Concentration (Waste 4)	MGOC	1137/4	0.00000E+00	0.000E+00	0.000E+00	BF2_QB0600_TEST14.inp 73/7
80	r_{ci}	RK(1)	681	3.000000E-10	3.0000E-10	0.000E+00	BF2_QB0600_TEST14.inp 263/1
81	r_{mi}	RK(2)	682	2.000000E-10	2.0000E-10	0.000E+00	BF2_QB0600_TEST14.inp 263/2
82	r_{ch} / r_{ci}	HF(1)	685	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 265/1
83	r_{mh} / r_{mi}	HF(2)	686	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 265/2
84	r_{hi}	BRUCITEI	689	1.000000E-09	1.0000E-09	0.000E+00	BF2_QB0600_TEST14.inp 267/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
85	r_{hh}	BRUCITEH	690	0.000000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 267/2
86	S_{co}	SOCMIN	702	1.500000E-02	1.5000E-02	0.000E+00	BF2_QB0600_TEST14.inp 272
87	W	SATWICK	781	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 290/1
88	α	ALPHARXN	784	1.000000E+03	1.0000E+03	0.000E+00	BF2_QB0600_TEST14.inp 290/4
89	S_{cw} *(Waste 1 @3.1557E+09 s)*				0.0000E+00		$S_{cw} = S_w - S_{co} + W\{1 - \exp[-200\alpha(S_w - S_{co})^2]\}$
90	S_{cw} *(Waste 2 @3.1557E+09 s)*				1.0000E+00		
91	S_{cw} *(Waste 3 @3.1557E+09 s)*				1.0000E+00		
92	S_{cw} *(Waste 4 @3.1557E+09 s)*				1.0000E+00		
93	S_{cw} *(Waste 1 @9.4673E+10 s)*				2.6372E-04		
94	q_{rci} *(Waste 1 @3.1557E+09 s)*	CORRATI	1893/3	0.00000E+00	0.0000E+00	0.000E+00	$q_{rci} = r_{ci} S_{cw} C^0_{Fe} V$
95	q_{rci} *(Waste 2 @3.1557E+09 s)*	CORRATI	1893/7	0.00000E+00	0.0000E+00	0.000E+00	
96	q_{rci} *(Waste 3 @3.1557E+09 s)*	CORRATI	1893/11	0.00000E+00	0.0000E+00	0.000E+00	
97	q_{rci} *(Waste 4 @3.1557E+09 s)*	CORRATI	1894/4	3.30000E-08	3.3000E-08	0.000E+00	
98	q_{rci} *(Waste 1 @9.4673E+10 s)*	CORRATI	4749/3	7.91196E-12	7.9115E-12	4.923E-16	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
99	q_{rmi} *(Waste 1 @3.1557E+09 s)*	BIORATI	1903/3	0.00000E+00	0.0000E+00	0.000E+00	
100	q_{rmi} *(Waste 2 @3.1557E+09 s)*	BIORATI	1903/7	0.00000E+00	0.0000E+00	0.000E+00	
101	q_{rmi} *(Waste 3 @3.1557E+09 s)*	BIORATI	1903/11	9.00000E-09	9.0000E-09	0.000E+00	$q_{rmi} = r_{mi} S_{cw} C^0_{\mathrm{CH2O}} V$
102	q_{rmi} *(Waste 4 @3.1557E+09 s)*	BIORATI	1904/4	1.10000E-08	1.1000E-08	0.000E+00	
103	q_{rmi} *(Waste 1 @9.4673E+10 s)*	BIORATI	4759/3	2.63732E-12	2.6372E-12	1.641E-16	
104	q_{rhi} *(Waste 1 @3.1557E+09 s)*	MGO_HR	1923/3	0.00000E+00	0.0000E+00	0.000E+00	
105	q_{rhi} *(Waste 2 @3.1557E+09 s)*	MGO_HR	1923/7	1.10000E-07	1.1000E-07	0.000E+00	
106	q_{rhi} *(Waste 3 @3.1557E+09 s)*	MGO_HR	1923/11	9.00000E-08	9.0000E-08	0.000E+00	$q_{rhi} = r_{hi} S_{cw} C^0_{\mathrm{MgO}} V$
107	q_{rhi} *(Waste 4 @3.1557E+09 s)*	MGO_HR	1924/4	0.00000E+00	0.0000E+00	0.000E+00	
108	q_{rhi} *(Waste 1 @9.4673E+10 s)*	MGO_HR	4779/3	2.63732E-11	2.6372E-11	1.641E-15	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
Cellulosics Microbial Degradation Dependent Chemistry Rates							
110	C_{Fe} *(Waste 2 @ 3.1557E+09 s)*	FECONC	1983/7	0.00000E+00			
111	C_{Fe} *(Waste 3 @ 3.1557E+09 s)*	FECONC	1983/11	0.00000E+00			
112	C_{Fe} *(Waste 4 @ 3.1557E+09 s)*	FECONC	1984/4	1.04170E+02			
113	C_{FeOH2} *(Waste 2 @ 3.1557E+09 s)*	FEOH2C	1993/7	0.00000E+00			
114	C_{FeOH2} *(Waste 3 @ 3.1557E+09 s)*	FEOH2C	1993/11	0.00000E+00			
115	C_{FeOH2} *(Waste 4 @ 3.1557E+09 s)*	FEOH2C	1994/4	7.82065E+00			
116	C_{MgO} *(Waste 2 @ 3.1557E+09 s)*	MGOC	2003/7	9.60093E+01			
117	C_{MgO} *(Waste 3 @ 3.1557E+09 s)*	MGOC	2003/11	7.85457E+01			
118	C_{MgO} *(Waste 4 @ 3.1557E+09 s)*	MGOC	2004/4	0.00000E+00			
119	C_{MgOH2} *(Waste 2 @ 3.1557E+09 s)*	MGOH2C	2008/7	2.02443E+01			
120	C_{MgOH2} *(Waste 3 @ 3.1557E+09 s)*	MGOH2C	2008/11	1.49177E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
121	C_{MgOH2} *(Waste 4 @ 3.1557E+09 s)*	MGOH2C	2009/4	0.00000E+00			
122	$s_{sulf}(1)$	RXH2S(1)	694	5.000000E-01	5.0000E-01	0.000E+00	BF2_QB0600_TEST14.inp 269/1
123	$s_{sulf}(2)$	RXH2S(2)	699	5.000000E-01	5.0000E-01	0.000E+00	BF2_QB0600_TEST14.inp 270/1
124	$s_{carb}(1)$	RXCO2(1)	695	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 269/2
125	$s_{carb}(2)$	RXCO2(2)	700	1.000000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 270/2
126	q_{rsulf} *(Waste 2 @3.1557E+09 s)*				0.0000E+00		$q_{rsulf} = s_{sulf} q_{rm}$
127	q_{rsulf} *(Waste 3 @3.1557E+09 s)*				4.5000E-09		
128	q_{rsulf} *(Waste 4 @3.1557E+09 s)*				5.5000E-09		
129	q_{rcarb} *(Waste 2 @3.1557E+09 s)*				0.0000E+00		$q_{rcarb} = s_{carb} q_{rm}$
130	q_{rcarb} *(Waste 3 @3.1557E+09 s)*				9.0000E-09		
131	q_{rcarb} *(Waste 4 @3.1557E+09 s)*				1.1000E-08		

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
132	q_{rsulf_FeOH2} *(Waste 2 @3.1557E+09 s)*	FEOH2_SR	1913/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rsulf\_FeOH2} = q_{rsulf}\left[1-\exp\left(-\alpha\frac{C_{FeOH2}}{C^0_{Fe}}\right)\right]$
133	q_{rsulf_FeOH2} *(Waste 3 @3.1557E+09 s)*	FEOH2_SR	1913/11	0.00000E+00	0.0000E+00	0.000E+00	
134	q_{rsulf_FeOH2} *(Waste 4 @3.1557E+09 s)*	FEOH2_SR	1914/4	5.50000E-09	5.5000E-09	0.000E+00	
135	q_{rsulf_Fe} *(Waste 2 @3.1557E+09 s)*	FE_SR	1918/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rsulf\_Fe} = q_{rsulf} - q_{rsulf\_FeOH2}$
136	q_{rsulf_Fe} *(Waste 3 @3.1557E+09 s)*	FE_SR	1918/11	0.00000E+00	0.0000E+00	0.000E+00	
137	q_{rsulf_Fe} *(Waste 4 @3.1557E+09 s)*	FE_SR	1919/4	7.18117E-39	0.0000E+00	7.181E-39	
138	q_{rcarb_MgOH2} *(Waste 2 @3.1557E+09 s)*	MGOH2_CR	1928/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rcarb\_MgOH2} = q_{rcarb}\left[1-\exp\left(-\alpha\frac{C_{MgOH2}}{C^0_{MgO}}\right)\right]$
139	q_{rcarb_MgOH2} *(Waste 3 @3.1557E+09 s)*	MGOH2_CR	1928/11	9.00000E-09	9.0000E-09	0.000E+00	
140	q_{rcarb_MgOH2} *(Waste 4 @3.1557E+09 s)*	MGOH2_CR	1929/4	0.00000E+00	0.0000E+00	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
141	q_{rcarb_MgO} (Waste 2 @3.1557E+09 s)	MGO_CR	1933/7	0.00000E+00	0.0000E+00	0.000E+00	$q_{rcarb\_MgO} = q_{rcarb} - q_{rcarb\_MgOH2}$
142	q_{rcarb_MgO} (Waste 3 @3.1557E+09 s)	MGO_CR	1933/11	1.94227E-78	0.0000E+00	1.942E-78	
143	q_{rcarb_MgO} (Waste 4 @3.1557E+09 s)	MGO_CR	1934/4	0.00000E+00	0.0000E+00	0.000E+00	
Additional Chemistry Test							
145	*SC_1,1*	S(1,1)	705	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/1
146	*SC_1,2*	S(1,2)	706	-2.000000E+00	-2.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/2
147	*SC_1,3*	S(1,3)	707	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/3
148	*SC_1,4*	S(1,4)	708	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/4
149	*SC_1,5*	S(1,5)	709	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/5
150	*SC_1,6*	S(1,6)	710	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/6
151	*SC_1,7*	S(1,7)	711	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/7
152	*SC_1,8*	S(1,8)	712	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/8
153	*SC_1,9*	S(1,9)	713	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 278/9
154	*SC_2,1*	S(2,1)	716	5.000000E-01	5.00E-01	0.000E+00	BF2_QB0600_TEST14.inp 269/1
155	*SC_2,2*	S(2,2)	717	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/2
156	*SC_2,3*	S(2,3)	718	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/3
157	*SC_2,4*	S(2,4)	719	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/4
158	*SC_2,5*	S(2,5)	720	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/5
159	*SC_2,6*	S(2,6)	721	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/6
160	*SC_2,7*	S(2,7)	722	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/7
161	*SC_2,8*	S(2,8)	723	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/8
162	*SC_2,9*	S(2,9)	724	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 279/9
163	*SC_3,1*	S(3,1)	727	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/1
164	*SC_3,2*	S(3,2)	728	2.000000E+00	2.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/2
165	*SC_3,3*	S(3,3)	729	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/3
166	*SC_3,4*	S(3,4)	730	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/4
167	*SC_3,5*	S(3,5)	731	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/5

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
168	*SC_3,6*	S(3,6)	732	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/6
169	*SC_3,7*	S(3,7)	733	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/7
170	*SC_3,8*	S(3,8)	734	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/8
171	*SC_3,9*	S(3,9)	735	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 280/9
172	*SC_4,1*	S(4,1)	738	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/1
173	*SC_4,2*	S(4,2)	739	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/2
174	*SC_4,3*	S(4,3)	740	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/3
175	*SC_4,4*	S(4,4)	741	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/4
176	*SC_4,5*	S(4,5)	742	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/5
177	*SC_4,6*	S(4,6)	743	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/6
178	*SC_4,7*	S(4,7)	744	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/7
179	*SC_4,8*	S(4,8)	745	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/8
180	*SC_4,9*	S(4,9)	746	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 281/9
181	*SC_5,1*	S(5,1)	749	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/1
182	*SC_5,2*	S(5,2)	750	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/2
183	*SC_5,3*	S(5,3)	751	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/3
184	*SC_5,4*	S(5,4)	752	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/4
185	*SC_5,5*	S(5,5)	753	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/5
186	*SC_5,6*	S(5,6)	754	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/6
187	*SC_5,7*	S(5,7)	755	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/7
188	*SC_5,8*	S(5,8)	756	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/8
189	*SC_5,9*	S(5,9)	757	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 282/9
190	*SC_6,1*	S(6,1)	760	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/1
191	*SC_6,2*	S(6,2)	761	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/2
192	*SC_6,3*	S(6,3)	762	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/3
193	*SC_6,4*	S(6,4)	763	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/4
194	*SC_6,5*	S(6,5)	764	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/5
195	*SC_6,6*	S(6,6)	765	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/6
196	*SC_6,7*	S(6,7)	766	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/7
197	*SC_6,8*	S(6,8)	767	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/8
198	*SC_6,9*	S(6,9)	768	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 283/9
199	*SC_7,1*	S(7,1)	771	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/1
200	*SC_7,2*	S(7,2)	772	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/2
201	*SC_7,3*	S(7,3)	773	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/3
202	*SC_7,4*	S(7,4)	774	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/4
203	*SC_7,5*	S(7,5)	775	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/5
204	*SC_7,6*	S(7,6)	776	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/6

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
205	$SC\_7,7$	S(7,7)	777	-1.000000E+00	-1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/7
206	$SC\_7,8$	S(7,8)	778	0.000000E+00	0.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/8
207	$SC\_7,9$	S(7,9)	779	1.000000E+00	1.00E+00	0.000E+00	BF2_QB0600_TEST14.inp 284/9
208	MW_{H2}	MW(1)	787	2.0159E-03	2.01590E-03	0.000E+00	BF2_QB0600_TEST14.inp 274/1
209	MW_{H2O}	MW(2)	788	1.8015E-02	1.80150E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/2
210	MW_{Fe}	MW(3)	789	5.5847E-02	5.58470E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/3
211	MW_{CH2O}	MW(4)	790	2.7023E-02	2.70230E-02	0.000E+00	BF2_QB0600_TEST14.inp 274/4
212	MW_{FeOH2}	MW(5)	793	8.9862E-02	8.98617E-02	3.000E-07	BF2_QB0600_TEST14.inp 276/1
213	MW_{FeS}	MW(6)	794	8.7900E-02	8.79000E-02	0.000E+00	BF2_QB0600_TEST14.inp 276/2
214	MW_{MgO}	MW(7)	795	4.0304E-02	4.03044E-02	-4.000E-07	BF2_QB0600_TEST14.inp 276/3
215	MW_{MgOH2}	MW(8)	796	5.8320E-02	5.83196E-02	4.000E-07	BF2_QB0600_TEST14.inp 276/4
216	MW_{MgCO3}	MW(9)	797	8.4314E-02	8.43142E-02	-2.000E-07	BF2_QB0600_TEST14.inp 276/5
217	m_s	SALT	593	3.2400E+01	3.2400E+01	0.000E+00	BF2_QB0600_TEST14.inp 226/1
218	MW_{Brine}	WMSALT			2.6649E-02		$MW_{brine} = \frac{MW_{H_2O}}{1-\frac{m_s}{100}}$
219	H2RATE (Waste 2 @3.1557E+09 s)	H2RATE	1938/7	0.00000E+00	0.0000E+00	0.000E+00	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
220	H2RATE (Waste 3 @3.1557E+09 s)	H2RATE	1938/11	9.07155E-12	9.0716E-12	0.000E+00	
221	H2RATE (Waste 4 @3.1557E+09 s)	H2RATE	1939/4	7.76122E-11	7.7612E-11	5.000E-17	
222	BRINRATE (Waste 2 @3.1557E+09 s)	BRINRATE	1943/7	-2.93143E-09	-2.9314E-09	4.911E-15	
223	BRINRATE (Waste 3 @3.1557E+09 s)	BRINRATE	1943/11	-2.15860E-09	-2.1586E-09	2.071E-15	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
224	BRINRATE (Waste 4 @3.1557E+09 s)	BRINRATE	1944/4	-1.46572E-09	-1.4657E-09	-2.544E-15	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
225	FERATE (Waste 2 @3.1557E+09 s)	FERATE	1948/7	0.00000E+00	0.0000E+00	0.000E+00	
226	FERATE (Waste 3 @3.1557E+09 s)	FERATE	1948/11	0.00000E+00	0.0000E+00	0.000E+00	
227	FERATE (Waste 4 @3.1557E+09 s)	FERATE	1949/4	-1.84295E-09	-1.8430E-09	1.000E-15	
228	CELLRATE (Waste 2 @3.1557E+09 s)	CELLRATE	1953/7	0.00000E+00	0.0000E+00	0.000E+00	
229	CELLRATE (Waste 3 @3.1557E+09 s)	CELLRATE	1953/11	-2.43207E-10	-2.4321E-10	0.000E+00	
230	CELLRATE (Waste 4 @3.1557E+09 s)	CELLRATE	1954/4	-2.97253E-10	-2.9725E-10	0.000E+00	
231	FEOH2R (Waste 2 @3.1557E+09 s)	FEOH2R	1958/7	0.00000E+00	0.0000E+00	0.000E+00	
232	FEOH2R (Waste 3 @3.1557E+09 s)	FEOH2R	1958/11	0.00000E+00	0.0000E+00	0.000E+00	
233	FEOH2R (Waste 4 @3.1557E+09 s)	FEOH2R	1958/4	2.47120E-09	2.4712E-09	3.250E-15	
234	FESR (Waste 2 @3.1557E+09 s)	FESR	1963/7	0.00000E+00	0.0000E+00	0.000E+00	
235	FESR (Waste 3 @3.1557E+09 s)	FESR	1963/11	0.00000E+00	0.0000E+00	0.000E+00	
236	FESR (Waste 4 @3.1557E+09 s)	FESR	1964/4	4.83450E-10	4.8345E-10	0.000E+00	

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
237	MGOR (Waste 2 @3.1557E+09 s)	MGOR	1968/7	-4.43348E-09	-4.4335E-09	4.000E-15	$SRAT_i = \frac{\sum_j S_{i,j} RAT_j}{MW_i}$
238	MGOR (Waste 3 @3.1557E+09 s)	MGOR	1968/11	-3.62740E-09	-3.6274E-09	-4.000E-15	
239	MGOR (Waste 4 @3.1557E+09 s)	MGOR	1969/4	0.00000E+00	0.0000E+00	0.000E+00	
240	MGOH2R (Waste 2 @3.1557E+09 s)	MGOH2R	1973/7	6.41516E-09	6.4152E-09	4.000E-15	
241	MGOH2R (Waste 3 @3.1557E+09 s)	MGOH2R	1973/11	4.72389E-09	4.7239E-09	2.400E-15	
242	MGOH2R (Waste 4 @3.1557E+09 s)	MGOH2R	1974/4	0.00000E+00	0.0000E+00	0.000E+00	
243	MGCO3R (Waste 2 @3.1557E+09 s)	MGCO3R	1978/7	0.00000E+00	0.0000E+00	0.000E+00	
244	MGCO3R (Waste 3 @3.1557E+09 s)	MGCO3R	1978/11	7.58828E-10	7.5883E-10	2.000E-16	
245	MGCO3R (Waste 4 @3.1557E+09 s)	MGCO3R	1979/4	0.00000E+00	0.0000E+00	0.000E+00	
Solids Production							
247	C_{CH2O} *(Waste 2 @ 3.1557E+09 s)*	CONCBIO	1988/7	0.00000E+00			
248	C_{CH2O} *(Waste 3 @ 3.1557E+09 s)*	CONCBIO	1988/11	4.42325E+01			
249	C_{CH2O} *(Waste 4 @ 3.1557E+09 s)*	CONCBIO	1989/4	5.40620E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
250	C_{Fe} *(Waste 2 @ 3.1557E+09 s)*	FECONC	1983/7	0.00000E+00			
251	C_{Fe} *(Waste 3 @ 3.1557E+09 s)*	FECONC	1983/11	0.00000E+00			
252	C_{Fe} *(Waste 4 @ 3.1557E+09 s)*	FECONC	1984/4	1.04170E+02			
253	C_{FeOH2} *(Waste 2 @ 3.1557E+09 s)*	FEOH2C	1993/7	0.00000E+00			
254	C_{FeOH2} *(Waste 3 @ 3.1557E+09 s)*	FEOH2C	1993/11	0.00000E+00			
255	C_{FeOH2} *(Waste 4 @ 3.1557E+09 s)*	FEOH2C	1994/4	7.82065E+00			
256	C_{FeS} *(Waste 2 @ 3.1557E+09 s)*	FESC	1998/7	0.00000E+00			
257	C_{FeS} *(Waste 3 @ 3.1557E+09 s)*	FESC	1998/11	0.00000E+00			
258	C_{FeS} *(Waste 4 @ 3.1557E+09 s)*	FESC	1999/4	1.52562E+00			
259	C_{MgO} *(Waste 2 @ 3.1557E+09 s)*	MGOC	2003/7	9.60093E+01			
260	C_{MgO} *(Waste 3 @ 3.1557E+09 s)*	MGOC	2003/11	7.85457E+01			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
261	C_{MgO} *(Waste 4 @ 3.1557E+09 s)*	MGOC	2004/4	0.00000E+00			
262	C_{MgOH2} *(Waste 2 @ 3.1557E+09 s)*	MGOH2C	2008/7	2.02443E+01			
263	C_{MgOH2} *(Waste 3 @ 3.1557E+09 s)*	MGOH2C	2008/11	1.49177E+01			
264	C_{MgOH2} *(Waste 4 @ 3.1557E+09 s)*	MGOH2C	2009/4	0.00000E+00			
265	C_{MgCO3} *(Waste 2 @ 3.1557E+09 s)*	MGCO3C	2013/7	0.00000E+00			
266	C_{MgCO3} *(Waste 3 @ 3.1557E+09 s)*	MGCO3C	2013/11	2.39463E+00			
267	C_{MgCO3} *(Waste 4 @ 3.1557E+09 s)*	MGCO3C	2014/4	0.00000E+00			
268	C_{Salt} *(Waste 2 @ 3.1557E+09 s)*	SALTC	2018/7	2.99724E+00			
269	C_{Salt} *(Waste 3 @ 3.1557E+09 s)*	SALTC	2018/11	2.20862E+00			
270	C_{Salt} *(Waste 4 @ 3.1557E+09 s)*	SALTC	2019/4	1.50290E+00			
271	Initial CH_2O Concentration (Waste 2)	CELLCONC	1121/7	0.00000E+00			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0		Independent Calculations		Comparison Source File (Line/Entry)/Equation
			.OUT line # (/ entry #)	Value from .OUT/.CDB	Comparison Value	Difference	
272	Initial CH_2O Concentration (Waste 3)	CELLCONC	1121/11	4.50000E+01			
273	Initial CH_2O Concentration (Waste 4)	CELLCONC	1122/4	5.50000E+01			
274	Initial Fe Concentration (Waste 2)	FECONC	1116/7	0.00000E+00			
275	Initial Fe Concentration (Waste 3)	FECONC	1116/11	0.00000E+00			
276	Initial Fe Concentration (Waste 4)	FECONC	1117/4	1.10000E+02			
277	Initial $Fe(OH)_2$ Concentration (Waste 2)	FEOH2C	1126/7	0.00000E+00			
278	Initial $Fe(OH)_2$ Concentration (Waste 3)	FEOH2C	1126/11	0.00000E+00			
279	Initial $Fe(OH)_2$ Concentration (Waste 4)	FEOH2C	1127/4	0.00000E+00			
280	Initial FeS Concentration (Waste 2)	FESC	1131/7	0.00000E+00			
281	Initial FeS Concentration (Waste 3)	FESC	1131/11	0.00000E+00			
282	Initial FeS Concentration (Waste 4)	FESC	1132/4	0.00000E+00			
283	Initial MgO Concentration (Waste 2)	MGOC	1136/7	1.10000E+02			

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
284	Initial MgO Concentration (Waste 3)	MGOC	1136/11	9.00000E+01			
285	Initial MgO Concentration (Waste 4)	MGOC	1137/4	0.00000E+00			
286	Initial $Mg(OH)_2$ Concentration (Waste 2)	MGOH2C	1141/7	0.00000E+00			
287	Initial $Mg(OH)_2$ Concentration (Waste 3)	MGOH2C	1141/11	0.00000E+00			
288	Initial $Mg(OH)_2$ Concentration (Waste 4)	MGOH2C	1142/4	0.00000E+00			
289	Initial $MgCO_3$ Concentration (Waste 2)	MGCO3C	1146/7	0.00000E+00			
290	Initial $MgCO_3$ Concentration (Waste 3)	MGCO3C	1146/11	0.00000E+00			
291	Initial $MgCO_3$ Concentration (Waste 4)	MGCO3C	1147/4	0.00000E+00			
292	Initial Salt Concentration (Waste 2)	SALTC	1151/7	0.00000E+00			
293	Initial Salt Concentration (Waste 3)	SALTC	1151/11	0.00000E+00			
294	Initial Salt Concentration (Waste 4)	SALTC	1152/4	0.00000E+00			
295	ρ_{CH2O}	DEN(1)	803	1.10000E+03	1.1000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/4
296	ρ_{Fe}	DEN(2)	800	7.87000E+03	7.8700E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/1

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
297	ρ_{FeOH2}	DEN(3)	801	3.40000E+03	3.4000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/2
298	ρ_{FeS}	DEN(4)	802	4.70000E+03	4.7000E+03	0.000E+00	BF2_QB0600_TEST14.inp 286/3
299	ρ_{MgO}	DEN(5)	806	3.60000E+03	3.6000E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/1
300	ρ_{MgOH2}	DEN(6)	807	2.37000E+03	2.3700E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/2
301	ρ_{MgCO3}	DEN(7)	808	3.05000E+03	3.0500E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/3
302	ρ_{Salt}	DEN(8)	809	2.17000E+03	2.1700E+03	0.000E+00	BF2_QB0600_TEST14.inp 288/4
303	ΔV_{sCH2O} (Waste 2)				0.0000E+00		$$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i}$$
304	ΔV_{sCH2O} (Waste 3)				-6.9773E-04		
305	ΔV_{sCH2O} (Waste 4)				-8.5273E-04		
306	ΔV_{sFe} (Waste 2)				0.0000E+00		
307	ΔV_{sFe} (Waste 3)				0.0000E+00		
308	ΔV_{sFe} (Waste 4)				-7.4079E-04		
309	ΔV_{sFeOH2} (Waste 2)				0.0000E+00		
310	ΔV_{sFeOH2} (Waste 3)				0.0000E+00		
311	ΔV_{sFeOH2} (Waste 4)				2.3002E-03		
312	ΔV_{sFeS} (Waste 2)				0.0000E+00		
313	ΔV_{sFeS} (Waste 3)				0.0000E+00		
314	ΔV_{sFeS} (Waste 4)				3.2460E-04		
315	ΔV_{sMgO} (Waste 2)				-3.8863E-03		
316	ΔV_{sMgO} (Waste 3)				-3.1818E-03		

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
317	ΔV_{sMgO} (Waste 4)				0.0000E+00		$\Delta V_{si} = \frac{C_i - C_i^0}{\rho_i}$
318	ΔV_{sMgOH2} (Waste 2)				8.5419E-03		
319	ΔV_{sMgOH2} (Waste 3)				6.2944E-03		
320	ΔV_{sMgOH2} (Waste 4)				0.0000E+00		
321	ΔV_{sMgCO3} (Waste 2)				0.0000E+00		
322	ΔV_{sMgCO3} (Waste 3)				7.8512E-04		
323	ΔV_{sMgCO3} (Waste 4)				0.0000E+00		
324	ΔV_{sSalt} (Waste 2)				1.3812E-03		
325	ΔV_{sSalt} (Waste 3)				1.0178E-03		
326	ΔV_{sSalt} (Waste 4)				6.9258E-04		
327	ΔV_s (Waste 2)	PORSOLID	2023/7	6.03680E-03	6.03681E-03	-9.768E-09	$\Delta V_s = \sum_i \Delta V_{si}$
328	ΔV_s (Waste 3)	PORSOLID	2023/11	4.21786E-03	4.21783E-03	2.726E-08	
329	ΔV_s (Waste 4)	PORSOLID	2024/4	1.72386E-03	1.72386E-03	3.253E-09	
			Smooth Permeability				
331							
332	t (1)	TIME	2884/1 & 2887/1	3.9333E+10			
333	t (2)	TIME	7975/1 & 7978/1	2.6024E+11			
334	k_{init} (1)	PERMBRX	550	1.0000E-11	1.0000E-11	0.000E+00	BF2_QB0600_TEST14.inp 212/1 & 199/2
335	k_{final} (1)	PERMBRX	551	1.0000E-15	1.0000E-15	0.000E+00	BF2_QB0600_TEST14.inp 212/2 & 200/2
336	t_{final} (1)	TFINAL	553	6.3114E+10	6.3114E+10	0.000E+00	BF2_QB0600_TEST14.inp 212/3
337	t_{change} (1)	TCHANGE	554	3.1557E+10	3.1557E+10	0.000E+00	BF2_QB0600_TEST14.inp 212/4

Line	Parameter	BRAGFLO Variable Name	BRAGFLO 6.0 .OUT line # (/ entry #)	BRAGFLO 6.0 Value from .OUT/.CDB	Independent Calculations Comparison Value	Independent Calculations Difference	Comparison Source File (Line/Entry)/Equation
338	C_1 (1)	C1	555	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 215/2
339	C_2 (1)	C2	556	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 215/3
340	C_3 (1)	C3	557	1.1000E+01	1.1000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/4
341	C_4 (1)	C4	558	-5.0000E+01	-5.0000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/5
342	C_5 (1)	C5	559	1.2000E+02	1.2000E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/6
343	C_6 (1)	C6	560	-1.6000E+02	-1.6000E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/7
344	C_7 (1)	C7	561	1.1200E+02	1.1200E+02	0.000E+00	BF2_QB0600_TEST14.inp 215/8
345	C_8 (1)	C8	562	-3.2000E+01	-3.2000E+01	0.000E+00	BF2_QB0600_TEST14.inp 215/9
346	k_{init} (2)	PERMBRX	565	1.0000E-15	1.0000E-15	0.000E+00	BF2_QB0600_TEST14.inp 213/1 & 200/2
347	k_{final} (2)	PERMBRX	566	1.0000E-11	1.0000E-11	0.000E+00	BF2_QB0600_TEST14.inp 213/2 & 199/2
348	t_{final} (2)	TFINAL	568	2.8402E+11	2.8402E+11	0.000E+00	BF2_QB0600_TEST14.inp 213/3
349	t_{change} (2)	TCHANGE	569	3.1557E+10	3.1557E+10	0.000E+00	BF2_QB0600_TEST14.inp 213/4
350	C_1 (2)	C1	570	0.0000E+00	0.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 216/2
351	C_2 (2)	C2	571	1.0000E+00	1.0000E+00	0.000E+00	BF2_QB0600_TEST14.inp 216/3
352	t_{init} (1)	TINIT	552	3.1557E+10	3.1557E+10	0.000E+00	$t_{init} = t_{final} - t_{change}$
353	t_{init} (2)	TINIT	567	2.5246E+11	2.5246E+11	-3.000E+06	
354	t_n (1)				2.4641E-01		$t_n = \begin{cases} 0 & t \le t_{init} \\ \dfrac{t - t_{init}}{t_{final} - t_{init}} & t_{init} < t < t_{final} \\ 1 & t \ge t_{final} \end{cases}$
355	t_n (2)				2.4632E-01		
356	$f(t_n(1))$				2.4018E-01		$f(t_n) = (c_1 + c_2 t_n + c_3 t_n^2 + c_4 t_n^3 + c_5 t_n^4 + c_6 t_n^5 + c_7 t_n^6 + c_8 t_n^7)$
357	$f(t_n(2))$				2.4632E-01		
358	$\ln(k_{smooth}(1))$				-2.7541E+01		$\ln(k_{smooth}) = \ln(k_{init}) + f(t_n)[\ln(k_{final}) - \ln(k_{init})]$
359	$\ln(k_{smooth}(2))$				-3.2270E+01		
360	$k_{smooth}(1)$	PERMBRX	2930/8	1.09466E-12	1.0947E-12	-4.672E-18	$k_{smooth} = \exp[\ln(k_{smooth})]$
361	$k_{smooth}(2)$	PERMBRX	8021/8	9.66640E-15	9.6664E-15	7.721E-23	

A.14.4 Test Case 14: Output Difference Files, BF2_QB0600_ES40_TEST14_OUT.DIF and BF2_QB0600_ES45_TEST14_OUT.DIF

BF2_QB0600_ES40_TEST14_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
    3     ** Begun on: 02/15/07 at 12:57:54 Run on: BTO - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
    3     ** Begun on: 02/14/07 at 16:02:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_TEST14.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_TEST14.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
  962     CPU Time (this time step) = 0.01 sec = 0.00000 hr
  963     CPU Time (total for run) = 0.15 sec = 0.00004 hr
  964    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  962     CPU Time (this time step) = 0.00 sec = 0.00000 hr
  963     CPU Time (total for run) = 0.12 sec = 0.00003 hr
  964    *******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
```

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1159    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) ASCII
1161    Time Step No. = 69 Elapsed Time = 0.000000E+00 days
1162    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
1164    Time Step No. = 70 Elapsed Time = 1.000000E-02 days
1165    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
1167    Time Step No. = 71 Elapsed Time = 1.156250E-02 days
1168    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1170    Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1173    Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1176    Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1179    Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1182    Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1185    Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1188    Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1191    Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1194    Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1197    Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1200    Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1203    Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1206    Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1209    Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1212    Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1215    Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1218    Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1221    Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1224    Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1227    Time Step No. = 91 Elapsed Time = 6.813764E-01 days
1228    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1230    Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1233    Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
1236    Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1239    Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1242    Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1245    Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
1248    Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1251    Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1254    Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1257    Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
1260    Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1263    Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1266    Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1269    Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270    Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
1272    Time Step No. = 106 Elapsed Time = 1.926305E+01 days
```

```
 1273     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1275     Time Step No. = 107 Elapsed Time = 2.407787E+01 days
 1276     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1278     Time Step No. = 108 Elapsed Time = 3.009641E+01 days
 1279     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1281     Time Step No. = 109 Elapsed Time = 3.761957E+01 days
 1282     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1284     Time Step No. = 110 Elapsed Time = 4.702352E+01 days
 1285     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1287     Time Step No. = 111 Elapsed Time = 5.877847E+01 days
 1288     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1290     Time Step No. = 112 Elapsed Time = 7.347215E+01 days
 1291     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1293     Time Step No. = 113 Elapsed Time = 9.183925E+01 days
 1294     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1296     Time Step No. = 114 Elapsed Time = 1.147981E+02 days
 1297     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1299     Time Step No. = 115 Elapsed Time = 1.434967E+02 days
 1300     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1302     Time Step No. = 116 Elapsed Time = 1.793700E+02 days
 1303     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1305     Time Step No. = 117 Elapsed Time = 2.242115E+02 days
 1306     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1308     Time Step No. = 118 Elapsed Time = 2.802634E+02 days
 1309     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1311     Time Step No. = 119 Elapsed Time = 3.503284E+02 days
 1312     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1315     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1159     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 1161     Time Step No. = 69 Elapsed Time = 0.000000E+00 days
 1162     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 1164     Time Step No. = 70 Elapsed Time = 1.000000E-02 days
 1165     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1167     Time Step No. = 71 Elapsed Time = 1.156250E-02 days
 1168     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1170     Time Step No. = 72 Elapsed Time = 1.351562E-02 days
 1171     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1173     Time Step No. = 73 Elapsed Time = 1.595703E-02 days
 1174     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1176     Time Step No. = 74 Elapsed Time = 1.900879E-02 days
 1177     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1179     Time Step No. = 75 Elapsed Time = 2.282349E-02 days
 1180     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1182     Time Step No. = 76 Elapsed Time = 2.759186E-02 days
 1183     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1185     Time Step No. = 77 Elapsed Time = 3.355232E-02 days
 1186     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1188     Time Step No. = 78 Elapsed Time = 4.100290E-02 days
 1189     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1191     Time Step No. = 79 Elapsed Time = 5.031613E-02 days
 1192     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1194     Time Step No. = 80 Elapsed Time = 6.195766E-02 days
 1195     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1197     Time Step No. = 81 Elapsed Time = 7.650958E-02 days
 1198     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1200     Time Step No. = 82 Elapsed Time = 9.469947E-02 days
 1201     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1203     Time Step No. = 83 Elapsed Time = 1.174368E-01 days
 1204     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1206     Time Step No. = 84 Elapsed Time = 1.458585E-01 days
 1207     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1209     Time Step No. = 85 Elapsed Time = 1.813857E-01 days
 1210     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1212     Time Step No. = 86 Elapsed Time = 2.257946E-01 days
 1213     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1215     Time Step No. = 87 Elapsed Time = 2.813058E-01 days
 1216     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1218     Time Step No. = 88 Elapsed Time = 3.506947E-01 days
 1219     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1221     Time Step No. = 89 Elapsed Time = 4.374309E-01 days
 1222     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1224     Time Step No. = 90 Elapsed Time = 5.458511E-01 days
 1225     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1227     Time Step No. = 91 Elapsed Time = 6.813764E-01 days
```

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 1228     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1230     Time Step No. = 92 Elapsed Time = 8.507829E-01 days
 1231     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1233     Time Step No. = 93 Elapsed Time = 1.062541E+00 days
 1234     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1236     Time Step No. = 94 Elapsed Time = 1.327239E+00 days
 1237     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1239     Time Step No. = 95 Elapsed Time = 1.658111E+00 days
 1240     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1242     Time Step No. = 96 Elapsed Time = 2.071702E+00 days
 1243     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1245     Time Step No. = 97 Elapsed Time = 2.588689E+00 days
 1246     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1248     Time Step No. = 98 Elapsed Time = 3.234924E+00 days
 1249     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1251     Time Step No. = 99 Elapsed Time = 4.042718E+00 days
 1252     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1254     Time Step No. = 100 Elapsed Time = 5.052460E+00 days
 1255     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1257     Time Step No. = 101 Elapsed Time = 6.314637E+00 days
 1258     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1260     Time Step No. = 102 Elapsed Time = 7.892359E+00 days
 1261     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1263     Time Step No. = 103 Elapsed Time = 9.864511E+00 days
 1264     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1266     Time Step No. = 104 Elapsed Time = 1.232970E+01 days
 1267     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1269     Time Step No. = 105 Elapsed Time = 1.541119E+01 days
 1270     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1272     Time Step No. = 106 Elapsed Time = 1.926305E+01 days
 1273     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1275     Time Step No. = 107 Elapsed Time = 2.407787E+01 days
 1276     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1278     Time Step No. = 108 Elapsed Time = 3.009641E+01 days
 1279     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1281     Time Step No. = 109 Elapsed Time = 3.761957E+01 days
 1282     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1284     Time Step No. = 110 Elapsed Time = 4.702352E+01 days
 1285     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1287     Time Step No. = 111 Elapsed Time = 5.877847E+01 days
 1288     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1290     Time Step No. = 112 Elapsed Time = 7.347215E+01 days
 1291     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1293     Time Step No. = 113 Elapsed Time = 9.183925E+01 days
 1294     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1296     Time Step No. = 114 Elapsed Time = 1.147981E+02 days
 1297     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1299     Time Step No. = 115 Elapsed Time = 1.434967E+02 days
 1300     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1302     Time Step No. = 116 Elapsed Time = 1.793700E+02 days
 1303     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1305     Time Step No. = 117 Elapsed Time = 2.242115E+02 days
 1306     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1308     Time Step No. = 118 Elapsed Time = 2.802634E+02 days
 1309     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1311     Time Step No. = 119 Elapsed Time = 3.503284E+02 days
 1312     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1315    ***********************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 1324     CPU Time (total for run) = 0.29 sec = 0.00008 hr
 1325    ***********************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1324     CPU Time (total for run) = 0.22 sec = 0.00006 hr
 1325    ***********************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 1520     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) ASCII
 1522     Time Step No. = 120 Elapsed Time = 3.652431E+02 days
 1523     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1525     Time Step No. = 121 Elapsed Time = 4.528242E+02 days
 1526     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1528     Time Step No. = 122 Elapsed Time = 5.623007E+02 days
```

```
 1529     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1531     Time Step No. = 123 Elapsed Time = 6.991462E+02 days
 1532     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1534     Time Step No. = 124 Elapsed Time = 8.702031E+02 days
 1535     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1537     Time Step No. = 125 Elapsed Time = 1.084024E+03 days
 1538     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1540     Time Step No. = 126 Elapsed Time = 1.351301E+03 days
 1541     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1543     Time Step No. = 127 Elapsed Time = 1.685396E+03 days
 1544     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1546     Time Step No. = 128 Elapsed Time = 2.103016E+03 days
 1547     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1549     Time Step No. = 129 Elapsed Time = 2.625040E+03 days
 1550     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 1552     Time Step No. = 130 Elapsed Time = 3.277571E+03 days
 1553     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 1556    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1520     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) ASCII
 1522     Time Step No. = 120 Elapsed Time = 3.652431E+02 days
 1523     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1525     Time Step No. = 121 Elapsed Time = 4.528242E+02 days
 1526     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1528     Time Step No. = 122 Elapsed Time = 5.623007E+02 days
 1529     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1531     Time Step No. = 123 Elapsed Time = 6.991462E+02 days
 1532     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1534     Time Step No. = 124 Elapsed Time = 8.702031E+02 days
 1535     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1537     Time Step No. = 125 Elapsed Time = 1.084024E+03 days
 1538     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1540     Time Step No. = 126 Elapsed Time = 1.351301E+03 days
 1541     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1543     Time Step No. = 127 Elapsed Time = 1.685396E+03 days
 1544     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1546     Time Step No. = 128 Elapsed Time = 2.103016E+03 days
 1547     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1549     Time Step No. = 129 Elapsed Time = 2.625040E+03 days
 1550     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1552     Time Step No. = 130 Elapsed Time = 3.277571E+03 days
 1553     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1556    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 1564     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1565     CPU Time (total for run) = 0.32 sec = 0.00009 hr
 1566    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1564     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1565     CPU Time (total for run) = 0.25 sec = 0.00007 hr
 1566    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 1761     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) ASCII
 1763     Time Step No. = 131 Elapsed Time = 3.652431E+03 days
 1764     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 1766     Time Step No. = 132 Elapsed Time = 4.468094E+03 days
 1767     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 1769     Time Step No. = 133 Elapsed Time = 5.487672E+03 days
 1770     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 1772     Time Step No. = 134 Elapsed Time = 6.762146E+03 days
 1773     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 1775     Time Step No. = 135 Elapsed Time = 8.355238E+03 days
 1776     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 1778     Time Step No. = 136 Elapsed Time = 1.034660E+04 days
 1779     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 1781     Time Step No. = 137 Elapsed Time = 1.234660E+04 days
 1782     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 1784     Time Step No. = 138 Elapsed Time = 1.434660E+04 days
 1785     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 1787     Time Step No. = 139 Elapsed Time = 1.634660E+04 days
```

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 1788     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 1790     Time Step No. = 140 Elapsed Time = 1.834660E+04 days
 1791     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 1793     Time Step No. = 141 Elapsed Time = 2.034660E+04 days
 1794     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 1796     Time Step No. = 142 Elapsed Time = 2.234660E+04 days
 1797     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 1799     Time Step No. = 143 Elapsed Time = 2.434660E+04 days
 1800     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 1802     Time Step No. = 144 Elapsed Time = 2.634660E+04 days
 1803     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 1805     Time Step No. = 145 Elapsed Time = 2.834660E+04 days
 1806     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 1808     Time Step No. = 146 Elapsed Time = 3.034660E+04 days
 1809     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 1811     Time Step No. = 147 Elapsed Time = 3.234660E+04 days
 1812     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
 1814     Time Step No. = 148 Elapsed Time = 3.434660E+04 days
 1815     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
 1817     Time Step No. = 149 Elapsed Time = 3.534660E+04 days
 1818     Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
 1821    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1761     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) ASCII
 1763     Time Step No. = 131 Elapsed Time = 3.652431E+03 days
 1764     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1766     Time Step No. = 132 Elapsed Time = 4.468094E+03 days
 1767     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1769     Time Step No. = 133 Elapsed Time = 5.487672E+03 days
 1770     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1772     Time Step No. = 134 Elapsed Time = 6.762146E+03 days
 1773     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1775     Time Step No. = 135 Elapsed Time = 8.355238E+03 days
 1776     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1778     Time Step No. = 136 Elapsed Time = 1.034660E+04 days
 1779     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1781     Time Step No. = 137 Elapsed Time = 1.234660E+04 days
 1782     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1784     Time Step No. = 138 Elapsed Time = 1.434660E+04 days
 1785     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1787     Time Step No. = 139 Elapsed Time = 1.634660E+04 days
 1788     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1790     Time Step No. = 140 Elapsed Time = 1.834660E+04 days
 1791     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1793     Time Step No. = 141 Elapsed Time = 2.034660E+04 days
 1794     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1796     Time Step No. = 142 Elapsed Time = 2.234660E+04 days
 1797     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1799     Time Step No. = 143 Elapsed Time = 2.434660E+04 days
 1800     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1802     Time Step No. = 144 Elapsed Time = 2.634660E+04 days
 1803     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1805     Time Step No. = 145 Elapsed Time = 2.834660E+04 days
 1806     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1808     Time Step No. = 146 Elapsed Time = 3.034660E+04 days
 1809     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1811     Time Step No. = 147 Elapsed Time = 3.234660E+04 days
 1812     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1814     Time Step No. = 148 Elapsed Time = 3.434660E+04 days
 1815     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1817     Time Step No. = 149 Elapsed Time = 3.534660E+04 days
 1818     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1821    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 1830     CPU Time (total for run) = 0.39 sec = 0.00011 hr
 1831    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1830     CPU Time (total for run) = 0.31 sec = 0.00009 hr
 1831    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
```

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2026  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) ASCII
2028  Time Step No. = 150 Elapsed Time = 3.652431E+04 days
2029  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2031  Time Step No. = 151 Elapsed Time = 3.777431E+04 days
2032  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2034  Time Step No. = 152 Elapsed Time = 3.816493E+04 days
2035  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2037  Time Step No. = 153 Elapsed Time = 3.865321E+04 days
2038  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2040  Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2043  Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2046  Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2049  Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2052  Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2055  Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2058  Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2061  Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2064  Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2067  Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2070  Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2073  Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2076  Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2079  Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2082  Time Step No. = 168 Elapsed Time = 6.352503E+04 days
2083  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2085  Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2088  Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2091  Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2094  Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2097  Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2100  Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101  Date: 02/15/07 Time: 12:57:55 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2103  Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2106  Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2109  Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2112  Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2115  Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2118  Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2121  Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2124  Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2127  Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2130  Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2133  Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2136  Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2139  Time Step No. = 187 Elapsed Time = 1.015250E+05 days
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2140    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2142    Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2145    Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2148    Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2151    Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2154    Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2157    Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2160    Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2163    Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2166    Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2169    Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2172    Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2175    Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2178    Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2181    Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2184    Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2187    Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2190    Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2193    Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2196    Time Step No. = 206 Elapsed Time = 1.395250E+05 days
2197    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2199    Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2202    Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2205    Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2208    Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2211    Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2214    Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2217    Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2220    Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2223    Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2226    Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2229    Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2232    Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2235    Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2238    Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2241    Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2244    Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2247    Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2250    Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2253    Time Step No. = 225 Elapsed Time = 1.775250E+05 days
```

```
2254    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2256    Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
2259    Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2262    Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
2265    Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2268    Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
2271    Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2274    Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
2277    Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2280    Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2283    Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
2286    Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
2289    Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2292    Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
2295    Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
2298    Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
2301    Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
2304    Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
2307    Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
2310    Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
2313    Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
2316    Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
2319    Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
2322    Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
2325    Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
2328    Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
2331    Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
2334    Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
2337    Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
2340    Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
2343    Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
2346    Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
2349    Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
2352    Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
2355    Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
2358    Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
2361    Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2364    Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2367    Time Step No. = 263 Elapsed Time = 2.535250E+05 days
```

```
2368    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2370    Time Step No. = 264 Elapsed Time = 2.555250E+05 days
2371    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2373    Time Step No. = 265 Elapsed Time = 2.575250E+05 days
2374    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2376    Time Step No. = 266 Elapsed Time = 2.595250E+05 days
2377    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
2379    Time Step No. = 267 Elapsed Time = 2.615250E+05 days
2380    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
2382    Time Step No. = 268 Elapsed Time = 2.635250E+05 days
2383    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
2385    Time Step No. = 269 Elapsed Time = 2.655250E+05 days
2386    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
2388    Time Step No. = 270 Elapsed Time = 2.675250E+05 days
2389    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
2391    Time Step No. = 271 Elapsed Time = 2.695250E+05 days
2392    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
2394    Time Step No. = 272 Elapsed Time = 2.715250E+05 days
2395    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
2397    Time Step No. = 273 Elapsed Time = 2.735250E+05 days
2398    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
2400    Time Step No. = 274 Elapsed Time = 2.755250E+05 days
2401    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
2403    Time Step No. = 275 Elapsed Time = 2.775250E+05 days
2404    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
2406    Time Step No. = 276 Elapsed Time = 2.795250E+05 days
2407    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
2409    Time Step No. = 277 Elapsed Time = 2.815250E+05 days
2410    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
2412    Time Step No. = 278 Elapsed Time = 2.835250E+05 days
2413    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
2415    Time Step No. = 279 Elapsed Time = 2.855250E+05 days
2416    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
2418    Time Step No. = 280 Elapsed Time = 2.875250E+05 days
2419    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
2421    Time Step No. = 281 Elapsed Time = 2.895250E+05 days
2422    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
2424    Time Step No. = 282 Elapsed Time = 2.915250E+05 days
2425    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
2427    Time Step No. = 283 Elapsed Time = 2.935250E+05 days
2428    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
2430    Time Step No. = 284 Elapsed Time = 2.955250E+05 days
2431    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
2433    Time Step No. = 285 Elapsed Time = 2.975250E+05 days
2434    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
2436    Time Step No. = 286 Elapsed Time = 2.995250E+05 days
2437    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
2439    Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
2442    Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
2445    Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
2448    Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
2451    Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2454    Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2457    Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2460    Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2463    Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2466    Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2469    Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2472    Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
2475    Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2478    Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
2481    Time Step No. = 301 Elapsed Time = 3.295250E+05 days
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 2482     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 2484     Time Step No. = 302 Elapsed Time = 3.315250E+05 days
 2485     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 2487     Time Step No. = 303 Elapsed Time = 3.335250E+05 days
 2488     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 2490     Time Step No. = 304 Elapsed Time = 3.355250E+05 days
 2491     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 2493     Time Step No. = 305 Elapsed Time = 3.375250E+05 days
 2494     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 2496     Time Step No. = 306 Elapsed Time = 3.395250E+05 days
 2497     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 2499     Time Step No. = 307 Elapsed Time = 3.415250E+05 days
 2500     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 2502     Time Step No. = 308 Elapsed Time = 3.435250E+05 days
 2503     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 2505     Time Step No. = 309 Elapsed Time = 3.455250E+05 days
 2506     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 2508     Time Step No. = 310 Elapsed Time = 3.475250E+05 days
 2509     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 2511     Time Step No. = 311 Elapsed Time = 3.495250E+05 days
 2512     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 2514     Time Step No. = 312 Elapsed Time = 3.515250E+05 days
 2515     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 2517     Time Step No. = 313 Elapsed Time = 3.535250E+05 days
 2518     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 2520     Time Step No. = 314 Elapsed Time = 3.555250E+05 days
 2521     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 2523     Time Step No. = 315 Elapsed Time = 3.575250E+05 days
 2524     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 2526     Time Step No. = 316 Elapsed Time = 3.595250E+05 days
 2527     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 2529     Time Step No. = 317 Elapsed Time = 3.615250E+05 days
 2530     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 2532     Time Step No. = 318 Elapsed Time = 3.635250E+05 days
 2533     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 2536    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2026     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) ASCII
 2028     Time Step No. = 150 Elapsed Time = 3.652431E+04 days
 2029     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 2031     Time Step No. = 151 Elapsed Time = 3.777431E+04 days
 2032     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 2034     Time Step No. = 152 Elapsed Time = 3.816493E+04 days
 2035     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2037     Time Step No. = 153 Elapsed Time = 3.865321E+04 days
 2038     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2040     Time Step No. = 154 Elapsed Time = 3.926356E+04 days
 2041     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2043     Time Step No. = 155 Elapsed Time = 4.002650E+04 days
 2044     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2046     Time Step No. = 156 Elapsed Time = 4.098018E+04 days
 2047     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2049     Time Step No. = 157 Elapsed Time = 4.217227E+04 days
 2050     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2052     Time Step No. = 158 Elapsed Time = 4.366239E+04 days
 2053     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2055     Time Step No. = 159 Elapsed Time = 4.552503E+04 days
 2056     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2058     Time Step No. = 160 Elapsed Time = 4.752503E+04 days
 2059     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2061     Time Step No. = 161 Elapsed Time = 4.952503E+04 days
 2062     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2064     Time Step No. = 162 Elapsed Time = 5.152503E+04 days
 2065     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2067     Time Step No. = 163 Elapsed Time = 5.352503E+04 days
 2068     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 2070     Time Step No. = 164 Elapsed Time = 5.552503E+04 days
 2071     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 2073     Time Step No. = 165 Elapsed Time = 5.752503E+04 days
 2074     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2076     Time Step No. = 166 Elapsed Time = 5.952503E+04 days
 2077     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2079     Time Step No. = 167 Elapsed Time = 6.152503E+04 days
 2080     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2082     Time Step No. = 168 Elapsed Time = 6.352503E+04 days
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```
2083    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2085    Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2088    Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2091    Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2094    Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2097    Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2100    Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2103    Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2106    Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2109    Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2112    Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2115    Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2118    Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2121    Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2124    Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2127    Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2130    Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2133    Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2136    Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2139    Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2142    Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2145    Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2148    Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2151    Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2154    Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2157    Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2160    Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2163    Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2166    Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2169    Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2172    Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2175    Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2178    Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2181    Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2184    Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2187    Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2190    Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2193    Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2196    Time Step No. = 206 Elapsed Time = 1.395250E+05 days
```

```
2197  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2199  Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2202  Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2205  Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2208  Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2211  Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2214  Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2217  Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2220  Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2223  Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2226  Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2229  Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2232  Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2235  Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2238  Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2241  Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2244  Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2247  Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2250  Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2253  Time Step No. = 225 Elapsed Time = 1.775250E+05 days
2254  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2256  Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2259  Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260  Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2262  Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2265  Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2268  Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2271  Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2274  Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2277  Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2280  Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2283  Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2286  Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2289  Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2292  Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2295  Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2298  Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2301  Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2304  Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2307  Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2310  Time Step No. = 244 Elapsed Time = 2.155250E+05 days
```

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2311  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2313  Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2316  Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2319  Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2322  Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2325  Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2328  Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2331  Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2334  Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2337  Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2340  Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2343  Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2346  Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2349  Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2352  Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2355  Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2358  Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2361  Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2364  Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2367  Time Step No. = 263 Elapsed Time = 2.535250E+05 days
2368  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2370  Time Step No. = 264 Elapsed Time = 2.555250E+05 days
2371  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2373  Time Step No. = 265 Elapsed Time = 2.575250E+05 days
2374  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2376  Time Step No. = 266 Elapsed Time = 2.595250E+05 days
2377  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2379  Time Step No. = 267 Elapsed Time = 2.615250E+05 days
2380  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2382  Time Step No. = 268 Elapsed Time = 2.635250E+05 days
2383  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2385  Time Step No. = 269 Elapsed Time = 2.655250E+05 days
2386  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2388  Time Step No. = 270 Elapsed Time = 2.675250E+05 days
2389  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2391  Time Step No. = 271 Elapsed Time = 2.695250E+05 days
2392  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2394  Time Step No. = 272 Elapsed Time = 2.715250E+05 days
2395  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2397  Time Step No. = 273 Elapsed Time = 2.735250E+05 days
2398  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2400  Time Step No. = 274 Elapsed Time = 2.755250E+05 days
2401  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2403  Time Step No. = 275 Elapsed Time = 2.775250E+05 days
2404  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2406  Time Step No. = 276 Elapsed Time = 2.795250E+05 days
2407  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2409  Time Step No. = 277 Elapsed Time = 2.815250E+05 days
2410  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2412  Time Step No. = 278 Elapsed Time = 2.835250E+05 days
2413  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2415  Time Step No. = 279 Elapsed Time = 2.855250E+05 days
2416  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2418  Time Step No. = 280 Elapsed Time = 2.875250E+05 days
2419  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2421  Time Step No. = 281 Elapsed Time = 2.895250E+05 days
2422  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2424  Time Step No. = 282 Elapsed Time = 2.915250E+05 days
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2425    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2427    Time Step No. = 283 Elapsed Time = 2.935250E+05 days
2428    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2430    Time Step No. = 284 Elapsed Time = 2.955250E+05 days
2431    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2433    Time Step No. = 285 Elapsed Time = 2.975250E+05 days
2434    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2436    Time Step No. = 286 Elapsed Time = 2.995250E+05 days
2437    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2439    Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2442    Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2445    Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2448    Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2451    Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2454    Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2457    Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2460    Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2463    Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2466    Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2469    Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2472    Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2475    Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2478    Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2481    Time Step No. = 301 Elapsed Time = 3.295250E+05 days
2482    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2484    Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2487    Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2490    Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2493    Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2496    Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2499    Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2502    Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2505    Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2508    Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2511    Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2514    Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2517    Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2520    Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2523    Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2526    Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2529    Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2532    Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2536   ********************************************************************************
************
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```

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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 2544     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 2545     CPU Time (total for run) = 1.06 sec = 0.00029 hr
 2546    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2544     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 2545     CPU Time (total for run) = 0.77 sec = 0.00021 hr
 2546    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 2741     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) ASCII
 2743     Time Step No. = 319 Elapsed Time = 3.652431E+05 days
 2744     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2746     Time Step No. = 320 Elapsed Time = 3.672431E+05 days
 2747     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2749     Time Step No. = 321 Elapsed Time = 3.692431E+05 days
 2750     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2752     Time Step No. = 322 Elapsed Time = 3.712431E+05 days
 2753     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2755     Time Step No. = 323 Elapsed Time = 3.732431E+05 days
 2756     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2758     Time Step No. = 324 Elapsed Time = 3.752431E+05 days
 2759     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2761     Time Step No. = 325 Elapsed Time = 3.772431E+05 days
 2762     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 2764     Time Step No. = 326 Elapsed Time = 3.792431E+05 days
 2765     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 2767     Time Step No. = 327 Elapsed Time = 3.812431E+05 days
 2768     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 2770     Time Step No. = 328 Elapsed Time = 3.832431E+05 days
 2771     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 2773     Time Step No. = 329 Elapsed Time = 3.852431E+05 days
 2774     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 2776     Time Step No. = 330 Elapsed Time = 3.872431E+05 days
 2777     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
 2779     Time Step No. = 331 Elapsed Time = 3.892431E+05 days
 2780     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
 2782     Time Step No. = 332 Elapsed Time = 3.912431E+05 days
 2783     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
 2785     Time Step No. = 333 Elapsed Time = 3.932431E+05 days
 2786     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
 2788     Time Step No. = 334 Elapsed Time = 3.952431E+05 days
 2789     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
 2791     Time Step No. = 335 Elapsed Time = 3.972431E+05 days
 2792     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
 2794     Time Step No. = 336 Elapsed Time = 3.992431E+05 days
 2795     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
 2797     Time Step No. = 337 Elapsed Time = 4.012431E+05 days
 2798     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
 2800     Time Step No. = 338 Elapsed Time = 4.032431E+05 days
 2801     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
 2803     Time Step No. = 339 Elapsed Time = 4.052431E+05 days
 2804     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
 2806     Time Step No. = 340 Elapsed Time = 4.072431E+05 days
 2807     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
 2809     Time Step No. = 341 Elapsed Time = 4.092431E+05 days
 2810     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
 2812     Time Step No. = 342 Elapsed Time = 4.112431E+05 days
 2813     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2815     Time Step No. = 343 Elapsed Time = 4.132431E+05 days
 2816     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2818     Time Step No. = 344 Elapsed Time = 4.152431E+05 days
 2819     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2821     Time Step No. = 345 Elapsed Time = 4.172431E+05 days
 2822     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
 2824     Time Step No. = 346 Elapsed Time = 4.192431E+05 days
 2825     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
 2827     Time Step No. = 347 Elapsed Time = 4.212431E+05 days
 2828     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
 2830     Time Step No. = 348 Elapsed Time = 4.232431E+05 days
 2831     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
 2833     Time Step No. = 349 Elapsed Time = 4.252431E+05 days
 2834     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
 2836     Time Step No. = 350 Elapsed Time = 4.272431E+05 days
```

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 2837    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
 2839    Time Step No. = 351 Elapsed Time = 4.292431E+05 days
 2840    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
 2842    Time Step No. = 352 Elapsed Time = 4.312431E+05 days
 2843    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
 2845    Time Step No. = 353 Elapsed Time = 4.332431E+05 days
 2846    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
 2848    Time Step No. = 354 Elapsed Time = 4.352431E+05 days
 2849    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
 2851    Time Step No. = 355 Elapsed Time = 4.372431E+05 days
 2852    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
 2854    Time Step No. = 356 Elapsed Time = 4.392431E+05 days
 2855    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2857    Time Step No. = 357 Elapsed Time = 4.412431E+05 days
 2858    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2860    Time Step No. = 358 Elapsed Time = 4.432431E+05 days
 2861    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2863    Time Step No. = 359 Elapsed Time = 4.452431E+05 days
 2864    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2866    Time Step No. = 360 Elapsed Time = 4.472431E+05 days
 2867    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
 2869    Time Step No. = 361 Elapsed Time = 4.492431E+05 days
 2870    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
 2872    Time Step No. = 362 Elapsed Time = 4.512431E+05 days
 2873    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
 2875    Time Step No. = 363 Elapsed Time = 4.532431E+05 days
 2876    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
 2878    Time Step No. = 364 Elapsed Time = 4.552431E+05 days
 2879    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
 2882   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2741    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) ASCII
 2743    Time Step No. = 319 Elapsed Time = 3.652431E+05 days
 2744    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2746    Time Step No. = 320 Elapsed Time = 3.672431E+05 days
 2747    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2749    Time Step No. = 321 Elapsed Time = 3.692431E+05 days
 2750    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2752    Time Step No. = 322 Elapsed Time = 3.712431E+05 days
 2753    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2755    Time Step No. = 323 Elapsed Time = 3.732431E+05 days
 2756    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2758    Time Step No. = 324 Elapsed Time = 3.752431E+05 days
 2759    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2761    Time Step No. = 325 Elapsed Time = 3.772431E+05 days
 2762    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2764    Time Step No. = 326 Elapsed Time = 3.792431E+05 days
 2765    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2767    Time Step No. = 327 Elapsed Time = 3.812431E+05 days
 2768    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2770    Time Step No. = 328 Elapsed Time = 3.832431E+05 days
 2771    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2773    Time Step No. = 329 Elapsed Time = 3.852431E+05 days
 2774    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2776    Time Step No. = 330 Elapsed Time = 3.872431E+05 days
 2777    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2779    Time Step No. = 331 Elapsed Time = 3.892431E+05 days
 2780    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2782    Time Step No. = 332 Elapsed Time = 3.912431E+05 days
 2783    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2785    Time Step No. = 333 Elapsed Time = 3.932431E+05 days
 2786    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2788    Time Step No. = 334 Elapsed Time = 3.952431E+05 days
 2789    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2791    Time Step No. = 335 Elapsed Time = 3.972431E+05 days
 2792    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2794    Time Step No. = 336 Elapsed Time = 3.992431E+05 days
 2795    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2797    Time Step No. = 337 Elapsed Time = 4.012431E+05 days
 2798    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2800    Time Step No. = 338 Elapsed Time = 4.032431E+05 days
 2801    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2803    Time Step No. = 339 Elapsed Time = 4.052431E+05 days
 2804    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2806    Time Step No. = 340 Elapsed Time = 4.072431E+05 days
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 2807     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2809     Time Step No. = 341 Elapsed Time = 4.092431E+05 days
 2810     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2812     Time Step No. = 342 Elapsed Time = 4.112431E+05 days
 2813     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2815     Time Step No. = 343 Elapsed Time = 4.132431E+05 days
 2816     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2818     Time Step No. = 344 Elapsed Time = 4.152431E+05 days
 2819     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2821     Time Step No. = 345 Elapsed Time = 4.172431E+05 days
 2822     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2824     Time Step No. = 346 Elapsed Time = 4.192431E+05 days
 2825     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2827     Time Step No. = 347 Elapsed Time = 4.212431E+05 days
 2828     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2830     Time Step No. = 348 Elapsed Time = 4.232431E+05 days
 2831     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2833     Time Step No. = 349 Elapsed Time = 4.252431E+05 days
 2834     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2836     Time Step No. = 350 Elapsed Time = 4.272431E+05 days
 2837     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2839     Time Step No. = 351 Elapsed Time = 4.292431E+05 days
 2840     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2842     Time Step No. = 352 Elapsed Time = 4.312431E+05 days
 2843     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2845     Time Step No. = 353 Elapsed Time = 4.332431E+05 days
 2846     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2848     Time Step No. = 354 Elapsed Time = 4.352431E+05 days
 2849     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2851     Time Step No. = 355 Elapsed Time = 4.372431E+05 days
 2852     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2854     Time Step No. = 356 Elapsed Time = 4.392431E+05 days
 2855     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2857     Time Step No. = 357 Elapsed Time = 4.412431E+05 days
 2858     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2860     Time Step No. = 358 Elapsed Time = 4.432431E+05 days
 2861     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2863     Time Step No. = 359 Elapsed Time = 4.452431E+05 days
 2864     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2866     Time Step No. = 360 Elapsed Time = 4.472431E+05 days
 2867     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2869     Time Step No. = 361 Elapsed Time = 4.492431E+05 days
 2870     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2872     Time Step No. = 362 Elapsed Time = 4.512431E+05 days
 2873     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2875     Time Step No. = 363 Elapsed Time = 4.532431E+05 days
 2876     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2878     Time Step No. = 364 Elapsed Time = 4.552431E+05 days
 2879     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2882     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 2891     CPU Time (total for run) = 1.16 sec = 0.00032 hr
 2892     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2891     CPU Time (total for run) = 0.83 sec = 0.00023 hr
 2892     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3087     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) ASCII
 3089     Time Step No. = 365 Elapsed Time = 4.565625E+05 days
 3090     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
 3092     Time Step No. = 366 Elapsed Time = 4.585625E+05 days
 3093     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
 3095     Time Step No. = 367 Elapsed Time = 4.605625E+05 days
 3096     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
 3098     Time Step No. = 368 Elapsed Time = 4.625625E+05 days
 3099     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
 3101     Time Step No. = 369 Elapsed Time = 4.645625E+05 days
 3102     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
 3104     Time Step No. = 370 Elapsed Time = 4.665625E+05 days
 3105     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
 3107     Time Step No. = 371 Elapsed Time = 4.685625E+05 days
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3108  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
3110  Time Step No. = 372 Elapsed Time = 4.705625E+05 days
3111  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
3113  Time Step No. = 373 Elapsed Time = 4.725625E+05 days
3114  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
3116  Time Step No. = 374 Elapsed Time = 4.745625E+05 days
3117  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
3119  Time Step No. = 375 Elapsed Time = 4.765625E+05 days
3120  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
3122  Time Step No. = 376 Elapsed Time = 4.785625E+05 days
3123  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
3125  Time Step No. = 377 Elapsed Time = 4.805625E+05 days
3126  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
3128  Time Step No. = 378 Elapsed Time = 4.825625E+05 days
3129  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
3131  Time Step No. = 379 Elapsed Time = 4.845625E+05 days
3132  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
3134  Time Step No. = 380 Elapsed Time = 4.865625E+05 days
3135  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
3137  Time Step No. = 381 Elapsed Time = 4.885625E+05 days
3138  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
3140  Time Step No. = 382 Elapsed Time = 4.905625E+05 days
3141  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
3143  Time Step No. = 383 Elapsed Time = 4.925625E+05 days
3144  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
3146  Time Step No. = 384 Elapsed Time = 4.945625E+05 days
3147  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
3149  Time Step No. = 385 Elapsed Time = 4.965625E+05 days
3150  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
3152  Time Step No. = 386 Elapsed Time = 4.985625E+05 days
3153  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
3155  Time Step No. = 387 Elapsed Time = 5.005625E+05 days
3156  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
3158  Time Step No. = 388 Elapsed Time = 5.025625E+05 days
3159  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
3161  Time Step No. = 389 Elapsed Time = 5.045625E+05 days
3162  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
3164  Time Step No. = 390 Elapsed Time = 5.065625E+05 days
3165  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
3167  Time Step No. = 391 Elapsed Time = 5.085625E+05 days
3168  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
3170  Time Step No. = 392 Elapsed Time = 5.105625E+05 days
3171  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
3173  Time Step No. = 393 Elapsed Time = 5.125625E+05 days
3174  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
3176  Time Step No. = 394 Elapsed Time = 5.145625E+05 days
3177  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
3179  Time Step No. = 395 Elapsed Time = 5.165625E+05 days
3180  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
3182  Time Step No. = 396 Elapsed Time = 5.185625E+05 days
3183  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
3185  Time Step No. = 397 Elapsed Time = 5.205625E+05 days
3186  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
3188  Time Step No. = 398 Elapsed Time = 5.225625E+05 days
3189  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
3191  Time Step No. = 399 Elapsed Time = 5.245625E+05 days
3192  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
3194  Time Step No. = 400 Elapsed Time = 5.265625E+05 days
3195  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
3197  Time Step No. = 401 Elapsed Time = 5.285625E+05 days
3198  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3200  Time Step No. = 402 Elapsed Time = 5.305625E+05 days
3201  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3203  Time Step No. = 403 Elapsed Time = 5.325625E+05 days
3204  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3206  Time Step No. = 404 Elapsed Time = 5.345625E+05 days
3207  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3209  Time Step No. = 405 Elapsed Time = 5.365625E+05 days
3210  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3212  Time Step No. = 406 Elapsed Time = 5.385625E+05 days
3213  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3215  Time Step No. = 407 Elapsed Time = 5.405625E+05 days
3216  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3218  Time Step No. = 408 Elapsed Time = 5.425625E+05 days
3219  Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
3221  Time Step No. = 409 Elapsed Time = 5.445625E+05 days
```

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 3222     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 3224     Time Step No. = 410 Elapsed Time = 5.465625E+05 days
 3225     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3228    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3087     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) ASCII
 3089     Time Step No. = 365 Elapsed Time = 4.565625E+05 days
 3090     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3092     Time Step No. = 366 Elapsed Time = 4.585625E+05 days
 3093     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3095     Time Step No. = 367 Elapsed Time = 4.605625E+05 days
 3096     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3098     Time Step No. = 368 Elapsed Time = 4.625625E+05 days
 3099     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3101     Time Step No. = 369 Elapsed Time = 4.645625E+05 days
 3102     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3104     Time Step No. = 370 Elapsed Time = 4.665625E+05 days
 3105     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3107     Time Step No. = 371 Elapsed Time = 4.685625E+05 days
 3108     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3110     Time Step No. = 372 Elapsed Time = 4.705625E+05 days
 3111     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3113     Time Step No. = 373 Elapsed Time = 4.725625E+05 days
 3114     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3116     Time Step No. = 374 Elapsed Time = 4.745625E+05 days
 3117     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3119     Time Step No. = 375 Elapsed Time = 4.765625E+05 days
 3120     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3122     Time Step No. = 376 Elapsed Time = 4.785625E+05 days
 3123     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3125     Time Step No. = 377 Elapsed Time = 4.805625E+05 days
 3126     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3128     Time Step No. = 378 Elapsed Time = 4.825625E+05 days
 3129     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3131     Time Step No. = 379 Elapsed Time = 4.845625E+05 days
 3132     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3134     Time Step No. = 380 Elapsed Time = 4.865625E+05 days
 3135     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3137     Time Step No. = 381 Elapsed Time = 4.885625E+05 days
 3138     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3140     Time Step No. = 382 Elapsed Time = 4.905625E+05 days
 3141     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3143     Time Step No. = 383 Elapsed Time = 4.925625E+05 days
 3144     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3146     Time Step No. = 384 Elapsed Time = 4.945625E+05 days
 3147     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3149     Time Step No. = 385 Elapsed Time = 4.965625E+05 days
 3150     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3152     Time Step No. = 386 Elapsed Time = 4.985625E+05 days
 3153     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3155     Time Step No. = 387 Elapsed Time = 5.005625E+05 days
 3156     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3158     Time Step No. = 388 Elapsed Time = 5.025625E+05 days
 3159     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3161     Time Step No. = 389 Elapsed Time = 5.045625E+05 days
 3162     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3164     Time Step No. = 390 Elapsed Time = 5.065625E+05 days
 3165     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3167     Time Step No. = 391 Elapsed Time = 5.085625E+05 days
 3168     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3170     Time Step No. = 392 Elapsed Time = 5.105625E+05 days
 3171     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3173     Time Step No. = 393 Elapsed Time = 5.125625E+05 days
 3174     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3176     Time Step No. = 394 Elapsed Time = 5.145625E+05 days
 3177     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3179     Time Step No. = 395 Elapsed Time = 5.165625E+05 days
 3180     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3182     Time Step No. = 396 Elapsed Time = 5.185625E+05 days
 3183     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3185     Time Step No. = 397 Elapsed Time = 5.205625E+05 days
 3186     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3188     Time Step No. = 398 Elapsed Time = 5.225625E+05 days
 3189     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3191     Time Step No. = 399 Elapsed Time = 5.245625E+05 days
```

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 3192     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3194     Time Step No. = 400 Elapsed Time = 5.265625E+05 days
 3195     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3197     Time Step No. = 401 Elapsed Time = 5.285625E+05 days
 3198     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3200     Time Step No. = 402 Elapsed Time = 5.305625E+05 days
 3201     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3203     Time Step No. = 403 Elapsed Time = 5.325625E+05 days
 3204     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3206     Time Step No. = 404 Elapsed Time = 5.345625E+05 days
 3207     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3209     Time Step No. = 405 Elapsed Time = 5.365625E+05 days
 3210     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3212     Time Step No. = 406 Elapsed Time = 5.385625E+05 days
 3213     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3215     Time Step No. = 407 Elapsed Time = 5.405625E+05 days
 3216     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3218     Time Step No. = 408 Elapsed Time = 5.425625E+05 days
 3219     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3221     Time Step No. = 409 Elapsed Time = 5.445625E+05 days
 3222     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3224     Time Step No. = 410 Elapsed Time = 5.465625E+05 days
 3225     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3228    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3236     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3237     CPU Time (total for run) = 1.25 sec = 0.00035 hr
 3238    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3236     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3237     CPU Time (total for run) = 0.91 sec = 0.00025 hr
 3238    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3433     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) ASCII
 3435     Time Step No. = 411 Elapsed Time = 5.478704E+05 days
 3436     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3438     Time Step No. = 412 Elapsed Time = 5.498704E+05 days
 3439     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3441     Time Step No. = 413 Elapsed Time = 5.518704E+05 days
 3442     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3444     Time Step No. = 414 Elapsed Time = 5.538704E+05 days
 3445     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3447     Time Step No. = 415 Elapsed Time = 5.558704E+05 days
 3448     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3450     Time Step No. = 416 Elapsed Time = 5.578704E+05 days
 3451     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 3453     Time Step No. = 417 Elapsed Time = 5.598704E+05 days
 3454     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 3456     Time Step No. = 418 Elapsed Time = 5.618704E+05 days
 3457     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 3459     Time Step No. = 419 Elapsed Time = 5.638704E+05 days
 3460     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 3462     Time Step No. = 420 Elapsed Time = 5.658704E+05 days
 3463     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 3465     Time Step No. = 421 Elapsed Time = 5.678704E+05 days
 3466     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
 3468     Time Step No. = 422 Elapsed Time = 5.698704E+05 days
 3469     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
 3471     Time Step No. = 423 Elapsed Time = 5.718704E+05 days
 3472     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
 3474     Time Step No. = 424 Elapsed Time = 5.738704E+05 days
 3475     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
 3477     Time Step No. = 425 Elapsed Time = 5.758704E+05 days
 3478     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
 3480     Time Step No. = 426 Elapsed Time = 5.778704E+05 days
 3481     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
 3483     Time Step No. = 427 Elapsed Time = 5.798704E+05 days
 3484     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
 3486     Time Step No. = 428 Elapsed Time = 5.818704E+05 days
 3487     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
 3489     Time Step No. = 429 Elapsed Time = 5.838704E+05 days
```

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 3490    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
 3492    Time Step No. = 430 Elapsed Time = 5.858704E+05 days
 3493    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
 3495    Time Step No. = 431 Elapsed Time = 5.878704E+05 days
 3496    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
 3498    Time Step No. = 432 Elapsed Time = 5.898704E+05 days
 3499    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
 3501    Time Step No. = 433 Elapsed Time = 5.918704E+05 days
 3502    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
 3504    Time Step No. = 434 Elapsed Time = 5.938704E+05 days
 3505    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
 3507    Time Step No. = 435 Elapsed Time = 5.958704E+05 days
 3508    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
 3510    Time Step No. = 436 Elapsed Time = 5.978704E+05 days
 3511    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
 3513    Time Step No. = 437 Elapsed Time = 5.998704E+05 days
 3514    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
 3516    Time Step No. = 438 Elapsed Time = 6.018704E+05 days
 3517    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
 3519    Time Step No. = 439 Elapsed Time = 6.038704E+05 days
 3520    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
 3522    Time Step No. = 440 Elapsed Time = 6.058704E+05 days
 3523    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
 3525    Time Step No. = 441 Elapsed Time = 6.078704E+05 days
 3526    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
 3528    Time Step No. = 442 Elapsed Time = 6.098704E+05 days
 3529    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
 3531    Time Step No. = 443 Elapsed Time = 6.118704E+05 days
 3532    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
 3534    Time Step No. = 444 Elapsed Time = 6.138704E+05 days
 3535    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
 3537    Time Step No. = 445 Elapsed Time = 6.158704E+05 days
 3538    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
 3540    Time Step No. = 446 Elapsed Time = 6.178704E+05 days
 3541    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
 3543    Time Step No. = 447 Elapsed Time = 6.198704E+05 days
 3544    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
 3546    Time Step No. = 448 Elapsed Time = 6.218704E+05 days
 3547    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
 3549    Time Step No. = 449 Elapsed Time = 6.238704E+05 days
 3550    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
 3552    Time Step No. = 450 Elapsed Time = 6.258704E+05 days
 3553    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
 3555    Time Step No. = 451 Elapsed Time = 6.278704E+05 days
 3556    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 3558    Time Step No. = 452 Elapsed Time = 6.298704E+05 days
 3559    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 3561    Time Step No. = 453 Elapsed Time = 6.318704E+05 days
 3562    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 3564    Time Step No. = 454 Elapsed Time = 6.338704E+05 days
 3565    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 3567    Time Step No. = 455 Elapsed Time = 6.358704E+05 days
 3568    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 3570    Time Step No. = 456 Elapsed Time = 6.378704E+05 days
 3571    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 3574    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3433    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) ASCII
 3435    Time Step No. = 411 Elapsed Time = 5.478704E+05 days
 3436    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3438    Time Step No. = 412 Elapsed Time = 5.498704E+05 days
 3439    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3441    Time Step No. = 413 Elapsed Time = 5.518704E+05 days
 3442    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3444    Time Step No. = 414 Elapsed Time = 5.538704E+05 days
 3445    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
 3447    Time Step No. = 415 Elapsed Time = 5.558704E+05 days
 3448    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
 3450    Time Step No. = 416 Elapsed Time = 5.578704E+05 days
 3451    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
 3453    Time Step No. = 417 Elapsed Time = 5.598704E+05 days
 3454    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
 3456    Time Step No. = 418 Elapsed Time = 5.618704E+05 days
 3457    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
 3459    Time Step No. = 419 Elapsed Time = 5.638704E+05 days
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3460    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3462    Time Step No. = 420 Elapsed Time = 5.658704E+05 days
3463    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3465    Time Step No. = 421 Elapsed Time = 5.678704E+05 days
3466    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3468    Time Step No. = 422 Elapsed Time = 5.698704E+05 days
3469    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3471    Time Step No. = 423 Elapsed Time = 5.718704E+05 days
3472    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3474    Time Step No. = 424 Elapsed Time = 5.738704E+05 days
3475    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3477    Time Step No. = 425 Elapsed Time = 5.758704E+05 days
3478    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3480    Time Step No. = 426 Elapsed Time = 5.778704E+05 days
3481    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3483    Time Step No. = 427 Elapsed Time = 5.798704E+05 days
3484    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3486    Time Step No. = 428 Elapsed Time = 5.818704E+05 days
3487    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3489    Time Step No. = 429 Elapsed Time = 5.838704E+05 days
3490    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3492    Time Step No. = 430 Elapsed Time = 5.858704E+05 days
3493    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3495    Time Step No. = 431 Elapsed Time = 5.878704E+05 days
3496    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3498    Time Step No. = 432 Elapsed Time = 5.898704E+05 days
3499    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
3501    Time Step No. = 433 Elapsed Time = 5.918704E+05 days
3502    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3504    Time Step No. = 434 Elapsed Time = 5.938704E+05 days
3505    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3507    Time Step No. = 435 Elapsed Time = 5.958704E+05 days
3508    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3510    Time Step No. = 436 Elapsed Time = 5.978704E+05 days
3511    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3513    Time Step No. = 437 Elapsed Time = 5.998704E+05 days
3514    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3516    Time Step No. = 438 Elapsed Time = 6.018704E+05 days
3517    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3519    Time Step No. = 439 Elapsed Time = 6.038704E+05 days
3520    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
3522    Time Step No. = 440 Elapsed Time = 6.058704E+05 days
3523    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
3525    Time Step No. = 441 Elapsed Time = 6.078704E+05 days
3526    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
3528    Time Step No. = 442 Elapsed Time = 6.098704E+05 days
3529    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
3531    Time Step No. = 443 Elapsed Time = 6.118704E+05 days
3532    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
3534    Time Step No. = 444 Elapsed Time = 6.138704E+05 days
3535    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3537    Time Step No. = 445 Elapsed Time = 6.158704E+05 days
3538    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3540    Time Step No. = 446 Elapsed Time = 6.178704E+05 days
3541    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3543    Time Step No. = 447 Elapsed Time = 6.198704E+05 days
3544    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3546    Time Step No. = 448 Elapsed Time = 6.218704E+05 days
3547    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3549    Time Step No. = 449 Elapsed Time = 6.238704E+05 days
3550    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3552    Time Step No. = 450 Elapsed Time = 6.258704E+05 days
3553    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
3555    Time Step No. = 451 Elapsed Time = 6.278704E+05 days
3556    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3558    Time Step No. = 452 Elapsed Time = 6.298704E+05 days
3559    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3561    Time Step No. = 453 Elapsed Time = 6.318704E+05 days
3562    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3564    Time Step No. = 454 Elapsed Time = 6.338704E+05 days
3565    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3567    Time Step No. = 455 Elapsed Time = 6.358704E+05 days
3568    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3570    Time Step No. = 456 Elapsed Time = 6.378704E+05 days
3571    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
3574    *********************************************************************************
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************
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3583     CPU Time (total for run) = 1.34 sec = 0.00037 hr
 3584    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3583     CPU Time (total for run) = 0.98 sec = 0.00027 hr
 3584    ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3779     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) ASCII
 3781     Time Step No. = 457 Elapsed Time = 6.391898E+05 days
 3782     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 3784     Time Step No. = 458 Elapsed Time = 6.411898E+05 days
 3785     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 3787     Time Step No. = 459 Elapsed Time = 6.431898E+05 days
 3788     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 3790     Time Step No. = 460 Elapsed Time = 6.451898E+05 days
 3791     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 3793     Time Step No. = 461 Elapsed Time = 6.471898E+05 days
 3794     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 3796     Time Step No. = 462 Elapsed Time = 6.491898E+05 days
 3797     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3799     Time Step No. = 463 Elapsed Time = 6.511898E+05 days
 3800     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3802     Time Step No. = 464 Elapsed Time = 6.531898E+05 days
 3803     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3805     Time Step No. = 465 Elapsed Time = 6.551898E+05 days
 3806     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3808     Time Step No. = 466 Elapsed Time = 6.571898E+05 days
 3809     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3811     Time Step No. = 467 Elapsed Time = 6.591898E+05 days
 3812     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
 3814     Time Step No. = 468 Elapsed Time = 6.611898E+05 days
 3815     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
 3817     Time Step No. = 469 Elapsed Time = 6.631898E+05 days
 3818     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
 3820     Time Step No. = 470 Elapsed Time = 6.651898E+05 days
 3821     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
 3823     Time Step No. = 471 Elapsed Time = 6.671898E+05 days
 3824     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
 3826     Time Step No. = 472 Elapsed Time = 6.691898E+05 days
 3827     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
 3829     Time Step No. = 473 Elapsed Time = 6.711898E+05 days
 3830     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
 3832     Time Step No. = 474 Elapsed Time = 6.731898E+05 days
 3833     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
 3835     Time Step No. = 475 Elapsed Time = 6.751898E+05 days
 3836     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
 3838     Time Step No. = 476 Elapsed Time = 6.771898E+05 days
 3839     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
 3841     Time Step No. = 477 Elapsed Time = 6.791898E+05 days
 3842     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
 3844     Time Step No. = 478 Elapsed Time = 6.811898E+05 days
 3845     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
 3847     Time Step No. = 479 Elapsed Time = 6.831898E+05 days
 3848     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
 3850     Time Step No. = 480 Elapsed Time = 6.851898E+05 days
 3851     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
 3853     Time Step No. = 481 Elapsed Time = 6.871898E+05 days
 3854     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
 3856     Time Step No. = 482 Elapsed Time = 6.891898E+05 days
 3857     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
 3859     Time Step No. = 483 Elapsed Time = 6.911898E+05 days
 3860     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
 3862     Time Step No. = 484 Elapsed Time = 6.931898E+05 days
 3863     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
 3865     Time Step No. = 485 Elapsed Time = 6.951898E+05 days
 3866     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
 3868     Time Step No. = 486 Elapsed Time = 6.971898E+05 days
 3869     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
 3871     Time Step No. = 487 Elapsed Time = 6.991898E+05 days
 3872     Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
 3874     Time Step No. = 488 Elapsed Time = 7.011898E+05 days
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3875   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
3877   Time Step No. = 489 Elapsed Time = 7.031898E+05 days
3878   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
3880   Time Step No. = 490 Elapsed Time = 7.051898E+05 days
3881   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
3883   Time Step No. = 491 Elapsed Time = 7.071898E+05 days
3884   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
3886   Time Step No. = 492 Elapsed Time = 7.091898E+05 days
3887   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
3889   Time Step No. = 493 Elapsed Time = 7.111898E+05 days
3890   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
3892   Time Step No. = 494 Elapsed Time = 7.131898E+05 days
3893   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
3895   Time Step No. = 495 Elapsed Time = 7.151898E+05 days
3896   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
3898   Time Step No. = 496 Elapsed Time = 7.171898E+05 days
3899   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
3901   Time Step No. = 497 Elapsed Time = 7.191898E+05 days
3902   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
3904   Time Step No. = 498 Elapsed Time = 7.211898E+05 days
3905   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
3907   Time Step No. = 499 Elapsed Time = 7.231898E+05 days
3908   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
3910   Time Step No. = 500 Elapsed Time = 7.251898E+05 days
3911   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
3913   Time Step No. = 501 Elapsed Time = 7.271898E+05 days
3914   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
3916   Time Step No. = 502 Elapsed Time = 7.291898E+05 days
3917   Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
3920   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3779   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) ASCII
3781   Time Step No. = 457 Elapsed Time = 6.391898E+05 days
3782   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3784   Time Step No. = 458 Elapsed Time = 6.411898E+05 days
3785   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3787   Time Step No. = 459 Elapsed Time = 6.431898E+05 days
3788   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3790   Time Step No. = 460 Elapsed Time = 6.451898E+05 days
3791   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3793   Time Step No. = 461 Elapsed Time = 6.471898E+05 days
3794   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3796   Time Step No. = 462 Elapsed Time = 6.491898E+05 days
3797   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3799   Time Step No. = 463 Elapsed Time = 6.511898E+05 days
3800   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3802   Time Step No. = 464 Elapsed Time = 6.531898E+05 days
3803   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3805   Time Step No. = 465 Elapsed Time = 6.551898E+05 days
3806   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3808   Time Step No. = 466 Elapsed Time = 6.571898E+05 days
3809   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
3811   Time Step No. = 467 Elapsed Time = 6.591898E+05 days
3812   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3814   Time Step No. = 468 Elapsed Time = 6.611898E+05 days
3815   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3817   Time Step No. = 469 Elapsed Time = 6.631898E+05 days
3818   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3820   Time Step No. = 470 Elapsed Time = 6.651898E+05 days
3821   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
3823   Time Step No. = 471 Elapsed Time = 6.671898E+05 days
3824   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3826   Time Step No. = 472 Elapsed Time = 6.691898E+05 days
3827   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3829   Time Step No. = 473 Elapsed Time = 6.711898E+05 days
3830   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3832   Time Step No. = 474 Elapsed Time = 6.731898E+05 days
3833   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3835   Time Step No. = 475 Elapsed Time = 6.751898E+05 days
3836   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3838   Time Step No. = 476 Elapsed Time = 6.771898E+05 days
3839   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3841   Time Step No. = 477 Elapsed Time = 6.791898E+05 days
3842   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
3844   Time Step No. = 478 Elapsed Time = 6.811898E+05 days
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 3845    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3847    Time Step No. = 479 Elapsed Time = 6.831898E+05 days
 3848    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3850    Time Step No. = 480 Elapsed Time = 6.851898E+05 days
 3851    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3853    Time Step No. = 481 Elapsed Time = 6.871898E+05 days
 3854    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3856    Time Step No. = 482 Elapsed Time = 6.891898E+05 days
 3857    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3859    Time Step No. = 483 Elapsed Time = 6.911898E+05 days
 3860    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3862    Time Step No. = 484 Elapsed Time = 6.931898E+05 days
 3863    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3865    Time Step No. = 485 Elapsed Time = 6.951898E+05 days
 3866    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3868    Time Step No. = 486 Elapsed Time = 6.971898E+05 days
 3869    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3871    Time Step No. = 487 Elapsed Time = 6.991898E+05 days
 3872    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3874    Time Step No. = 488 Elapsed Time = 7.011898E+05 days
 3875    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3877    Time Step No. = 489 Elapsed Time = 7.031898E+05 days
 3878    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3880    Time Step No. = 490 Elapsed Time = 7.051898E+05 days
 3881    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3883    Time Step No. = 491 Elapsed Time = 7.071898E+05 days
 3884    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3886    Time Step No. = 492 Elapsed Time = 7.091898E+05 days
 3887    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3889    Time Step No. = 493 Elapsed Time = 7.111898E+05 days
 3890    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3892    Time Step No. = 494 Elapsed Time = 7.131898E+05 days
 3893    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3895    Time Step No. = 495 Elapsed Time = 7.151898E+05 days
 3896    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3898    Time Step No. = 496 Elapsed Time = 7.171898E+05 days
 3899    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3901    Time Step No. = 497 Elapsed Time = 7.191898E+05 days
 3902    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3904    Time Step No. = 498 Elapsed Time = 7.211898E+05 days
 3905    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3907    Time Step No. = 499 Elapsed Time = 7.231898E+05 days
 3908    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3910    Time Step No. = 500 Elapsed Time = 7.251898E+05 days
 3911    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3913    Time Step No. = 501 Elapsed Time = 7.271898E+05 days
 3914    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3916    Time Step No. = 502 Elapsed Time = 7.291898E+05 days
 3917    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3920   ****************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 3928    CPU Time (this time step) = 0.01 sec = 0.00000 hr
 3929    CPU Time (total for run) = 1.45 sec = 0.00040 hr
 3930   ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3928    CPU Time (this time step) = 0.00 sec = 0.00000 hr
 3929    CPU Time (total for run) = 1.06 sec = 0.00029 hr
 3930   ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 4125    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) ASCII
 4127    Time Step No. = 503 Elapsed Time = 7.305093E+05 days
 4128    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
 4130    Time Step No. = 504 Elapsed Time = 7.325093E+05 days
 4131    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
 4133    Time Step No. = 505 Elapsed Time = 7.345093E+05 days
 4134    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
 4136    Time Step No. = 506 Elapsed Time = 7.365093E+05 days
 4137    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
 4139    Time Step No. = 507 Elapsed Time = 7.385093E+05 days
 4140    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
 4142    Time Step No. = 508 Elapsed Time = 7.405093E+05 days
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4143    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
4145    Time Step No. = 509 Elapsed Time = 7.425093E+05 days
4146    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
4148    Time Step No. = 510 Elapsed Time = 7.445093E+05 days
4149    Date: 02/15/07 Time: 12:57:56 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
4151    Time Step No. = 511 Elapsed Time = 7.465093E+05 days
4152    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
4154    Time Step No. = 512 Elapsed Time = 7.485093E+05 days
4155    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
4157    Time Step No. = 513 Elapsed Time = 7.505093E+05 days
4158    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
4160    Time Step No. = 514 Elapsed Time = 7.525093E+05 days
4161    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
4163    Time Step No. = 515 Elapsed Time = 7.545093E+05 days
4164    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
4166    Time Step No. = 516 Elapsed Time = 7.565093E+05 days
4167    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
4169    Time Step No. = 517 Elapsed Time = 7.585093E+05 days
4170    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
4172    Time Step No. = 518 Elapsed Time = 7.605093E+05 days
4173    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
4175    Time Step No. = 519 Elapsed Time = 7.625093E+05 days
4176    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
4178    Time Step No. = 520 Elapsed Time = 7.645093E+05 days
4179    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
4181    Time Step No. = 521 Elapsed Time = 7.665093E+05 days
4182    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
4184    Time Step No. = 522 Elapsed Time = 7.685093E+05 days
4185    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
4187    Time Step No. = 523 Elapsed Time = 7.705093E+05 days
4188    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
4190    Time Step No. = 524 Elapsed Time = 7.725093E+05 days
4191    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
4193    Time Step No. = 525 Elapsed Time = 7.745093E+05 days
4194    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
4196    Time Step No. = 526 Elapsed Time = 7.765093E+05 days
4197    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
4199    Time Step No. = 527 Elapsed Time = 7.785093E+05 days
4200    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
4202    Time Step No. = 528 Elapsed Time = 7.805093E+05 days
4203    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
4205    Time Step No. = 529 Elapsed Time = 7.825093E+05 days
4206    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
4208    Time Step No. = 530 Elapsed Time = 7.845093E+05 days
4209    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
4211    Time Step No. = 531 Elapsed Time = 7.865093E+05 days
4212    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
4214    Time Step No. = 532 Elapsed Time = 7.885093E+05 days
4215    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
4217    Time Step No. = 533 Elapsed Time = 7.905093E+05 days
4218    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
4220    Time Step No. = 534 Elapsed Time = 7.925093E+05 days
4221    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
4223    Time Step No. = 535 Elapsed Time = 7.945093E+05 days
4224    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
4226    Time Step No. = 536 Elapsed Time = 7.965093E+05 days
4227    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
4229    Time Step No. = 537 Elapsed Time = 7.985093E+05 days
4230    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
4232    Time Step No. = 538 Elapsed Time = 8.005093E+05 days
4233    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
4235    Time Step No. = 539 Elapsed Time = 8.025093E+05 days
4236    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
4238    Time Step No. = 540 Elapsed Time = 8.045093E+05 days
4239    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
4241    Time Step No. = 541 Elapsed Time = 8.065093E+05 days
4242    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
4244    Time Step No. = 542 Elapsed Time = 8.085093E+05 days
4245    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
4247    Time Step No. = 543 Elapsed Time = 8.105093E+05 days
4248    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
4250    Time Step No. = 544 Elapsed Time = 8.125093E+05 days
4251    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
4253    Time Step No. = 545 Elapsed Time = 8.145093E+05 days
4254    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
4256    Time Step No. = 546 Elapsed Time = 8.165093E+05 days
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4257  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
4259  Time Step No. = 547 Elapsed Time = 8.185093E+05 days
4260  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
4262  Time Step No. = 548 Elapsed Time = 8.205093E+05 days
4263  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
4265  Time Step No. = 549 Elapsed Time = 8.225093E+05 days
4266  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
4268  Time Step No. = 550 Elapsed Time = 8.245093E+05 days
4269  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
4271  Time Step No. = 551 Elapsed Time = 8.265093E+05 days
4272  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
4274  Time Step No. = 552 Elapsed Time = 8.285093E+05 days
4275  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
4277  Time Step No. = 553 Elapsed Time = 8.305093E+05 days
4278  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
4280  Time Step No. = 554 Elapsed Time = 8.325093E+05 days
4281  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
4283  Time Step No. = 555 Elapsed Time = 8.345093E+05 days
4284  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
4286  Time Step No. = 556 Elapsed Time = 8.365093E+05 days
4287  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
4289  Time Step No. = 557 Elapsed Time = 8.385093E+05 days
4290  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
4292  Time Step No. = 558 Elapsed Time = 8.405093E+05 days
4293  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
4295  Time Step No. = 559 Elapsed Time = 8.425093E+05 days
4296  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
4298  Time Step No. = 560 Elapsed Time = 8.445093E+05 days
4299  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
4301  Time Step No. = 561 Elapsed Time = 8.465093E+05 days
4302  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
4304  Time Step No. = 562 Elapsed Time = 8.485093E+05 days
4305  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
4307  Time Step No. = 563 Elapsed Time = 8.505093E+05 days
4308  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
4310  Time Step No. = 564 Elapsed Time = 8.525093E+05 days
4311  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
4313  Time Step No. = 565 Elapsed Time = 8.545093E+05 days
4314  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
4316  Time Step No. = 566 Elapsed Time = 8.565093E+05 days
4317  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
4319  Time Step No. = 567 Elapsed Time = 8.585093E+05 days
4320  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
4322  Time Step No. = 568 Elapsed Time = 8.605093E+05 days
4323  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
4325  Time Step No. = 569 Elapsed Time = 8.625093E+05 days
4326  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
4328  Time Step No. = 570 Elapsed Time = 8.645093E+05 days
4329  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
4331  Time Step No. = 571 Elapsed Time = 8.665093E+05 days
4332  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
4334  Time Step No. = 572 Elapsed Time = 8.685093E+05 days
4335  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
4337  Time Step No. = 573 Elapsed Time = 8.705093E+05 days
4338  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
4340  Time Step No. = 574 Elapsed Time = 8.725093E+05 days
4341  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
4343  Time Step No. = 575 Elapsed Time = 8.745093E+05 days
4344  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
4346  Time Step No. = 576 Elapsed Time = 8.765093E+05 days
4347  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
4349  Time Step No. = 577 Elapsed Time = 8.785093E+05 days
4350  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
4352  Time Step No. = 578 Elapsed Time = 8.805093E+05 days
4353  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
4355  Time Step No. = 579 Elapsed Time = 8.825093E+05 days
4356  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
4358  Time Step No. = 580 Elapsed Time = 8.845093E+05 days
4359  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
4361  Time Step No. = 581 Elapsed Time = 8.865093E+05 days
4362  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
4364  Time Step No. = 582 Elapsed Time = 8.885093E+05 days
4365  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
4367  Time Step No. = 583 Elapsed Time = 8.905093E+05 days
4368  Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
4370  Time Step No. = 584 Elapsed Time = 8.925093E+05 days
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4371    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
4373    Time Step No. = 585 Elapsed Time = 8.945093E+05 days
4374    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
4376    Time Step No. = 586 Elapsed Time = 8.965093E+05 days
4377    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
4379    Time Step No. = 587 Elapsed Time = 8.985093E+05 days
4380    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
4382    Time Step No. = 588 Elapsed Time = 9.005093E+05 days
4383    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
4385    Time Step No. = 589 Elapsed Time = 9.025093E+05 days
4386    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
4388    Time Step No. = 590 Elapsed Time = 9.045093E+05 days
4389    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
4391    Time Step No. = 591 Elapsed Time = 9.065093E+05 days
4392    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
4394    Time Step No. = 592 Elapsed Time = 9.085093E+05 days
4395    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
4397    Time Step No. = 593 Elapsed Time = 9.105093E+05 days
4398    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
4400    Time Step No. = 594 Elapsed Time = 9.125093E+05 days
4401    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
4403    Time Step No. = 595 Elapsed Time = 9.145093E+05 days
4404    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
4406    Time Step No. = 596 Elapsed Time = 9.165093E+05 days
4407    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
4409    Time Step No. = 597 Elapsed Time = 9.185093E+05 days
4410    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
4412    Time Step No. = 598 Elapsed Time = 9.205093E+05 days
4413    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
4415    Time Step No. = 599 Elapsed Time = 9.225093E+05 days
4416    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
4418    Time Step No. = 600 Elapsed Time = 9.245093E+05 days
4419    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
4421    Time Step No. = 601 Elapsed Time = 9.265093E+05 days
4422    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
4424    Time Step No. = 602 Elapsed Time = 9.285093E+05 days
4425    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
4427    Time Step No. = 603 Elapsed Time = 9.305093E+05 days
4428    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
4430    Time Step No. = 604 Elapsed Time = 9.325093E+05 days
4431    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
4433    Time Step No. = 605 Elapsed Time = 9.345093E+05 days
4434    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
4436    Time Step No. = 606 Elapsed Time = 9.365093E+05 days
4437    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
4439    Time Step No. = 607 Elapsed Time = 9.385093E+05 days
4440    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
4442    Time Step No. = 608 Elapsed Time = 9.405093E+05 days
4443    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
4445    Time Step No. = 609 Elapsed Time = 9.425093E+05 days
4446    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
4448    Time Step No. = 610 Elapsed Time = 9.445093E+05 days
4449    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
4451    Time Step No. = 611 Elapsed Time = 9.465093E+05 days
4452    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
4454    Time Step No. = 612 Elapsed Time = 9.485093E+05 days
4455    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
4457    Time Step No. = 613 Elapsed Time = 9.505093E+05 days
4458    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
4460    Time Step No. = 614 Elapsed Time = 9.525093E+05 days
4461    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
4463    Time Step No. = 615 Elapsed Time = 9.545093E+05 days
4464    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
4466    Time Step No. = 616 Elapsed Time = 9.565093E+05 days
4467    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
4469    Time Step No. = 617 Elapsed Time = 9.585093E+05 days
4470    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
4472    Time Step No. = 618 Elapsed Time = 9.605093E+05 days
4473    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
4475    Time Step No. = 619 Elapsed Time = 9.625093E+05 days
4476    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
4478    Time Step No. = 620 Elapsed Time = 9.645093E+05 days
4479    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
4481    Time Step No. = 621 Elapsed Time = 9.665093E+05 days
4482    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
4484    Time Step No. = 622 Elapsed Time = 9.685093E+05 days
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```
4485    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
4487    Time Step No. = 623 Elapsed Time = 9.705093E+05 days
4488    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
4490    Time Step No. = 624 Elapsed Time = 9.725093E+05 days
4491    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
4493    Time Step No. = 625 Elapsed Time = 9.745093E+05 days
4494    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
4496    Time Step No. = 626 Elapsed Time = 9.765093E+05 days
4497    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
4499    Time Step No. = 627 Elapsed Time = 9.785093E+05 days
4500    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
4502    Time Step No. = 628 Elapsed Time = 9.805093E+05 days
4503    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
4505    Time Step No. = 629 Elapsed Time = 9.825093E+05 days
4506    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
4508    Time Step No. = 630 Elapsed Time = 9.845093E+05 days
4509    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
4511    Time Step No. = 631 Elapsed Time = 9.865093E+05 days
4512    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
4514    Time Step No. = 632 Elapsed Time = 9.885093E+05 days
4515    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
4517    Time Step No. = 633 Elapsed Time = 9.905093E+05 days
4518    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
4520    Time Step No. = 634 Elapsed Time = 9.925093E+05 days
4521    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
4523    Time Step No. = 635 Elapsed Time = 9.945093E+05 days
4524    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
4526    Time Step No. = 636 Elapsed Time = 9.965093E+05 days
4527    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
4529    Time Step No. = 637 Elapsed Time = 9.985093E+05 days
4530    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
4532    Time Step No. = 638 Elapsed Time = 1.000509E+06 days
4533    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
4535    Time Step No. = 639 Elapsed Time = 1.002509E+06 days
4536    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
4538    Time Step No. = 640 Elapsed Time = 1.004509E+06 days
4539    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
4541    Time Step No. = 641 Elapsed Time = 1.006509E+06 days
4542    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
4544    Time Step No. = 642 Elapsed Time = 1.008509E+06 days
4545    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
4547    Time Step No. = 643 Elapsed Time = 1.010509E+06 days
4548    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
4550    Time Step No. = 644 Elapsed Time = 1.012509E+06 days
4551    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
4553    Time Step No. = 645 Elapsed Time = 1.014509E+06 days
4554    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
4556    Time Step No. = 646 Elapsed Time = 1.016509E+06 days
4557    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
4559    Time Step No. = 647 Elapsed Time = 1.018509E+06 days
4560    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
4562    Time Step No. = 648 Elapsed Time = 1.020509E+06 days
4563    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
4565    Time Step No. = 649 Elapsed Time = 1.022509E+06 days
4566    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
4568    Time Step No. = 650 Elapsed Time = 1.024509E+06 days
4569    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
4571    Time Step No. = 651 Elapsed Time = 1.026509E+06 days
4572    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
4574    Time Step No. = 652 Elapsed Time = 1.028509E+06 days
4575    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
4577    Time Step No. = 653 Elapsed Time = 1.030509E+06 days
4578    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
4580    Time Step No. = 654 Elapsed Time = 1.032509E+06 days
4581    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
4583    Time Step No. = 655 Elapsed Time = 1.034509E+06 days
4584    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
4586    Time Step No. = 656 Elapsed Time = 1.036509E+06 days
4587    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
4589    Time Step No. = 657 Elapsed Time = 1.038509E+06 days
4590    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
4592    Time Step No. = 658 Elapsed Time = 1.040509E+06 days
4593    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
4595    Time Step No. = 659 Elapsed Time = 1.042509E+06 days
4596    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
4598    Time Step No. = 660 Elapsed Time = 1.044509E+06 days
```

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 4599     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
 4601     Time Step No. = 661 Elapsed Time = 1.046509E+06 days
 4602     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
 4604     Time Step No. = 662 Elapsed Time = 1.048509E+06 days
 4605     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
 4607     Time Step No. = 663 Elapsed Time = 1.050509E+06 days
 4608     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
 4610     Time Step No. = 664 Elapsed Time = 1.052509E+06 days
 4611     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
 4613     Time Step No. = 665 Elapsed Time = 1.054509E+06 days
 4614     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
 4616     Time Step No. = 666 Elapsed Time = 1.056509E+06 days
 4617     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4619     Time Step No. = 667 Elapsed Time = 1.058509E+06 days
 4620     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4622     Time Step No. = 668 Elapsed Time = 1.060509E+06 days
 4623     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4625     Time Step No. = 669 Elapsed Time = 1.062509E+06 days
 4626     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4628     Time Step No. = 670 Elapsed Time = 1.064509E+06 days
 4629     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4631     Time Step No. = 671 Elapsed Time = 1.066509E+06 days
 4632     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4634     Time Step No. = 672 Elapsed Time = 1.068509E+06 days
 4635     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4637     Time Step No. = 673 Elapsed Time = 1.070509E+06 days
 4638     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4640     Time Step No. = 674 Elapsed Time = 1.072509E+06 days
 4641     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
 4643     Time Step No. = 675 Elapsed Time = 1.074509E+06 days
 4644     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4646     Time Step No. = 676 Elapsed Time = 1.076509E+06 days
 4647     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4649     Time Step No. = 677 Elapsed Time = 1.078509E+06 days
 4650     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4652     Time Step No. = 678 Elapsed Time = 1.080509E+06 days
 4653     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4655     Time Step No. = 679 Elapsed Time = 1.082509E+06 days
 4656     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4658     Time Step No. = 680 Elapsed Time = 1.084509E+06 days
 4659     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
 4661     Time Step No. = 681 Elapsed Time = 1.086509E+06 days
 4662     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
 4664     Time Step No. = 682 Elapsed Time = 1.088509E+06 days
 4665     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
 4667     Time Step No. = 683 Elapsed Time = 1.090509E+06 days
 4668     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
 4670     Time Step No. = 684 Elapsed Time = 1.092509E+06 days
 4671     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
 4673     Time Step No. = 685 Elapsed Time = 1.094509E+06 days
 4674     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
 4677    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 4125     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) ASCII
 4127     Time Step No. = 503 Elapsed Time = 7.305093E+05 days
 4128     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 4130     Time Step No. = 504 Elapsed Time = 7.325093E+05 days
 4131     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 4133     Time Step No. = 505 Elapsed Time = 7.345093E+05 days
 4134     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 4136     Time Step No. = 506 Elapsed Time = 7.365093E+05 days
 4137     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 4139     Time Step No. = 507 Elapsed Time = 7.385093E+05 days
 4140     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 4142     Time Step No. = 508 Elapsed Time = 7.405093E+05 days
 4143     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
 4145     Time Step No. = 509 Elapsed Time = 7.425093E+05 days
 4146     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 4148     Time Step No. = 510 Elapsed Time = 7.445093E+05 days
 4149     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 4151     Time Step No. = 511 Elapsed Time = 7.465093E+05 days
 4152     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 4154     Time Step No. = 512 Elapsed Time = 7.485093E+05 days
 4155     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
 4157     Time Step No. = 513 Elapsed Time = 7.505093E+05 days
```

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4158  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4160  Time Step No. = 514 Elapsed Time = 7.525093E+05 days
4161  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4163  Time Step No. = 515 Elapsed Time = 7.545093E+05 days
4164  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4166  Time Step No. = 516 Elapsed Time = 7.565093E+05 days
4167  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4169  Time Step No. = 517 Elapsed Time = 7.585093E+05 days
4170  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4172  Time Step No. = 518 Elapsed Time = 7.605093E+05 days
4173  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4175  Time Step No. = 519 Elapsed Time = 7.625093E+05 days
4176  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4178  Time Step No. = 520 Elapsed Time = 7.645093E+05 days
4179  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4181  Time Step No. = 521 Elapsed Time = 7.665093E+05 days
4182  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4184  Time Step No. = 522 Elapsed Time = 7.685093E+05 days
4185  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4187  Time Step No. = 523 Elapsed Time = 7.705093E+05 days
4188  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4190  Time Step No. = 524 Elapsed Time = 7.725093E+05 days
4191  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4193  Time Step No. = 525 Elapsed Time = 7.745093E+05 days
4194  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4196  Time Step No. = 526 Elapsed Time = 7.765093E+05 days
4197  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4199  Time Step No. = 527 Elapsed Time = 7.785093E+05 days
4200  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4202  Time Step No. = 528 Elapsed Time = 7.805093E+05 days
4203  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4205  Time Step No. = 529 Elapsed Time = 7.825093E+05 days
4206  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4208  Time Step No. = 530 Elapsed Time = 7.845093E+05 days
4209  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4211  Time Step No. = 531 Elapsed Time = 7.865093E+05 days
4212  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4214  Time Step No. = 532 Elapsed Time = 7.885093E+05 days
4215  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4217  Time Step No. = 533 Elapsed Time = 7.905093E+05 days
4218  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4220  Time Step No. = 534 Elapsed Time = 7.925093E+05 days
4221  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4223  Time Step No. = 535 Elapsed Time = 7.945093E+05 days
4224  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4226  Time Step No. = 536 Elapsed Time = 7.965093E+05 days
4227  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4229  Time Step No. = 537 Elapsed Time = 7.985093E+05 days
4230  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4232  Time Step No. = 538 Elapsed Time = 8.005093E+05 days
4233  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4235  Time Step No. = 539 Elapsed Time = 8.025093E+05 days
4236  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4238  Time Step No. = 540 Elapsed Time = 8.045093E+05 days
4239  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4241  Time Step No. = 541 Elapsed Time = 8.065093E+05 days
4242  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4244  Time Step No. = 542 Elapsed Time = 8.085093E+05 days
4245  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4247  Time Step No. = 543 Elapsed Time = 8.105093E+05 days
4248  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4250  Time Step No. = 544 Elapsed Time = 8.125093E+05 days
4251  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4253  Time Step No. = 545 Elapsed Time = 8.145093E+05 days
4254  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4256  Time Step No. = 546 Elapsed Time = 8.165093E+05 days
4257  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4259  Time Step No. = 547 Elapsed Time = 8.185093E+05 days
4260  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4262  Time Step No. = 548 Elapsed Time = 8.205093E+05 days
4263  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4265  Time Step No. = 549 Elapsed Time = 8.225093E+05 days
4266  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4268  Time Step No. = 550 Elapsed Time = 8.245093E+05 days
4269  Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4271  Time Step No. = 551 Elapsed Time = 8.265093E+05 days
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4272    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4274    Time Step No. = 552 Elapsed Time = 8.285093E+05 days
4275    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4277    Time Step No. = 553 Elapsed Time = 8.305093E+05 days
4278    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4280    Time Step No. = 554 Elapsed Time = 8.325093E+05 days
4281    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4283    Time Step No. = 555 Elapsed Time = 8.345093E+05 days
4284    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4286    Time Step No. = 556 Elapsed Time = 8.365093E+05 days
4287    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4289    Time Step No. = 557 Elapsed Time = 8.385093E+05 days
4290    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4292    Time Step No. = 558 Elapsed Time = 8.405093E+05 days
4293    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4295    Time Step No. = 559 Elapsed Time = 8.425093E+05 days
4296    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4298    Time Step No. = 560 Elapsed Time = 8.445093E+05 days
4299    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4301    Time Step No. = 561 Elapsed Time = 8.465093E+05 days
4302    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4304    Time Step No. = 562 Elapsed Time = 8.485093E+05 days
4305    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4307    Time Step No. = 563 Elapsed Time = 8.505093E+05 days
4308    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4310    Time Step No. = 564 Elapsed Time = 8.525093E+05 days
4311    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4313    Time Step No. = 565 Elapsed Time = 8.545093E+05 days
4314    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4316    Time Step No. = 566 Elapsed Time = 8.565093E+05 days
4317    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4319    Time Step No. = 567 Elapsed Time = 8.585093E+05 days
4320    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4322    Time Step No. = 568 Elapsed Time = 8.605093E+05 days
4323    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4325    Time Step No. = 569 Elapsed Time = 8.625093E+05 days
4326    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4328    Time Step No. = 570 Elapsed Time = 8.645093E+05 days
4329    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4331    Time Step No. = 571 Elapsed Time = 8.665093E+05 days
4332    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4334    Time Step No. = 572 Elapsed Time = 8.685093E+05 days
4335    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4337    Time Step No. = 573 Elapsed Time = 8.705093E+05 days
4338    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4340    Time Step No. = 574 Elapsed Time = 8.725093E+05 days
4341    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4343    Time Step No. = 575 Elapsed Time = 8.745093E+05 days
4344    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4346    Time Step No. = 576 Elapsed Time = 8.765093E+05 days
4347    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4349    Time Step No. = 577 Elapsed Time = 8.785093E+05 days
4350    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4352    Time Step No. = 578 Elapsed Time = 8.805093E+05 days
4353    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4355    Time Step No. = 579 Elapsed Time = 8.825093E+05 days
4356    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4358    Time Step No. = 580 Elapsed Time = 8.845093E+05 days
4359    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4361    Time Step No. = 581 Elapsed Time = 8.865093E+05 days
4362    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4364    Time Step No. = 582 Elapsed Time = 8.885093E+05 days
4365    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4367    Time Step No. = 583 Elapsed Time = 8.905093E+05 days
4368    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4370    Time Step No. = 584 Elapsed Time = 8.925093E+05 days
4371    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4373    Time Step No. = 585 Elapsed Time = 8.945093E+05 days
4374    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4376    Time Step No. = 586 Elapsed Time = 8.965093E+05 days
4377    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4379    Time Step No. = 587 Elapsed Time = 8.985093E+05 days
4380    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4382    Time Step No. = 588 Elapsed Time = 9.005093E+05 days
4383    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4385    Time Step No. = 589 Elapsed Time = 9.025093E+05 days
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4386    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4388    Time Step No. = 590 Elapsed Time = 9.045093E+05 days
4389    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4391    Time Step No. = 591 Elapsed Time = 9.065093E+05 days
4392    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4394    Time Step No. = 592 Elapsed Time = 9.085093E+05 days
4395    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4397    Time Step No. = 593 Elapsed Time = 9.105093E+05 days
4398    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4400    Time Step No. = 594 Elapsed Time = 9.125093E+05 days
4401    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4403    Time Step No. = 595 Elapsed Time = 9.145093E+05 days
4404    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4406    Time Step No. = 596 Elapsed Time = 9.165093E+05 days
4407    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4409    Time Step No. = 597 Elapsed Time = 9.185093E+05 days
4410    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4412    Time Step No. = 598 Elapsed Time = 9.205093E+05 days
4413    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4415    Time Step No. = 599 Elapsed Time = 9.225093E+05 days
4416    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4418    Time Step No. = 600 Elapsed Time = 9.245093E+05 days
4419    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4421    Time Step No. = 601 Elapsed Time = 9.265093E+05 days
4422    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4424    Time Step No. = 602 Elapsed Time = 9.285093E+05 days
4425    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4427    Time Step No. = 603 Elapsed Time = 9.305093E+05 days
4428    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4430    Time Step No. = 604 Elapsed Time = 9.325093E+05 days
4431    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4433    Time Step No. = 605 Elapsed Time = 9.345093E+05 days
4434    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4436    Time Step No. = 606 Elapsed Time = 9.365093E+05 days
4437    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4439    Time Step No. = 607 Elapsed Time = 9.385093E+05 days
4440    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4442    Time Step No. = 608 Elapsed Time = 9.405093E+05 days
4443    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4445    Time Step No. = 609 Elapsed Time = 9.425093E+05 days
4446    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4448    Time Step No. = 610 Elapsed Time = 9.445093E+05 days
4449    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4451    Time Step No. = 611 Elapsed Time = 9.465093E+05 days
4452    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4454    Time Step No. = 612 Elapsed Time = 9.485093E+05 days
4455    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4457    Time Step No. = 613 Elapsed Time = 9.505093E+05 days
4458    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4460    Time Step No. = 614 Elapsed Time = 9.525093E+05 days
4461    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4463    Time Step No. = 615 Elapsed Time = 9.545093E+05 days
4464    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4466    Time Step No. = 616 Elapsed Time = 9.565093E+05 days
4467    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4469    Time Step No. = 617 Elapsed Time = 9.585093E+05 days
4470    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4472    Time Step No. = 618 Elapsed Time = 9.605093E+05 days
4473    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4475    Time Step No. = 619 Elapsed Time = 9.625093E+05 days
4476    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4478    Time Step No. = 620 Elapsed Time = 9.645093E+05 days
4479    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4481    Time Step No. = 621 Elapsed Time = 9.665093E+05 days
4482    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4484    Time Step No. = 622 Elapsed Time = 9.685093E+05 days
4485    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4487    Time Step No. = 623 Elapsed Time = 9.705093E+05 days
4488    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4490    Time Step No. = 624 Elapsed Time = 9.725093E+05 days
4491    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4493    Time Step No. = 625 Elapsed Time = 9.745093E+05 days
4494    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4496    Time Step No. = 626 Elapsed Time = 9.765093E+05 days
4497    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4499    Time Step No. = 627 Elapsed Time = 9.785093E+05 days
```

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4500 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4502 Time Step No. = 628 Elapsed Time = 9.805093E+05 days
4503 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4505 Time Step No. = 629 Elapsed Time = 9.825093E+05 days
4506 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4508 Time Step No. = 630 Elapsed Time = 9.845093E+05 days
4509 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4511 Time Step No. = 631 Elapsed Time = 9.865093E+05 days
4512 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4514 Time Step No. = 632 Elapsed Time = 9.885093E+05 days
4515 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4517 Time Step No. = 633 Elapsed Time = 9.905093E+05 days
4518 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4520 Time Step No. = 634 Elapsed Time = 9.925093E+05 days
4521 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4523 Time Step No. = 635 Elapsed Time = 9.945093E+05 days
4524 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4526 Time Step No. = 636 Elapsed Time = 9.965093E+05 days
4527 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4529 Time Step No. = 637 Elapsed Time = 9.985093E+05 days
4530 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4532 Time Step No. = 638 Elapsed Time = 1.000509E+06 days
4533 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4535 Time Step No. = 639 Elapsed Time = 1.002509E+06 days
4536 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4538 Time Step No. = 640 Elapsed Time = 1.004509E+06 days
4539 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4541 Time Step No. = 641 Elapsed Time = 1.006509E+06 days
4542 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4544 Time Step No. = 642 Elapsed Time = 1.008509E+06 days
4545 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4547 Time Step No. = 643 Elapsed Time = 1.010509E+06 days
4548 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4550 Time Step No. = 644 Elapsed Time = 1.012509E+06 days
4551 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4553 Time Step No. = 645 Elapsed Time = 1.014509E+06 days
4554 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4556 Time Step No. = 646 Elapsed Time = 1.016509E+06 days
4557 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4559 Time Step No. = 647 Elapsed Time = 1.018509E+06 days
4560 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4562 Time Step No. = 648 Elapsed Time = 1.020509E+06 days
4563 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4565 Time Step No. = 649 Elapsed Time = 1.022509E+06 days
4566 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4568 Time Step No. = 650 Elapsed Time = 1.024509E+06 days
4569 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4571 Time Step No. = 651 Elapsed Time = 1.026509E+06 days
4572 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4574 Time Step No. = 652 Elapsed Time = 1.028509E+06 days
4575 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4577 Time Step No. = 653 Elapsed Time = 1.030509E+06 days
4578 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4580 Time Step No. = 654 Elapsed Time = 1.032509E+06 days
4581 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4583 Time Step No. = 655 Elapsed Time = 1.034509E+06 days
4584 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4586 Time Step No. = 656 Elapsed Time = 1.036509E+06 days
4587 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4589 Time Step No. = 657 Elapsed Time = 1.038509E+06 days
4590 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4592 Time Step No. = 658 Elapsed Time = 1.040509E+06 days
4593 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4595 Time Step No. = 659 Elapsed Time = 1.042509E+06 days
4596 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4598 Time Step No. = 660 Elapsed Time = 1.044509E+06 days
4599 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4601 Time Step No. = 661 Elapsed Time = 1.046509E+06 days
4602 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4604 Time Step No. = 662 Elapsed Time = 1.048509E+06 days
4605 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4607 Time Step No. = 663 Elapsed Time = 1.050509E+06 days
4608 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4610 Time Step No. = 664 Elapsed Time = 1.052509E+06 days
4611 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4613 Time Step No. = 665 Elapsed Time = 1.054509E+06 days
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 4614     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 4616     Time Step No. = 666 Elapsed Time = 1.056509E+06 days
 4617     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 4619     Time Step No. = 667 Elapsed Time = 1.058509E+06 days
 4620     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 4622     Time Step No. = 668 Elapsed Time = 1.060509E+06 days
 4623     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 4625     Time Step No. = 669 Elapsed Time = 1.062509E+06 days
 4626     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
 4628     Time Step No. = 670 Elapsed Time = 1.064509E+06 days
 4629     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4631     Time Step No. = 671 Elapsed Time = 1.066509E+06 days
 4632     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4634     Time Step No. = 672 Elapsed Time = 1.068509E+06 days
 4635     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4637     Time Step No. = 673 Elapsed Time = 1.070509E+06 days
 4638     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4640     Time Step No. = 674 Elapsed Time = 1.072509E+06 days
 4641     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4643     Time Step No. = 675 Elapsed Time = 1.074509E+06 days
 4644     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4646     Time Step No. = 676 Elapsed Time = 1.076509E+06 days
 4647     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4649     Time Step No. = 677 Elapsed Time = 1.078509E+06 days
 4650     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4652     Time Step No. = 678 Elapsed Time = 1.080509E+06 days
 4653     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4655     Time Step No. = 679 Elapsed Time = 1.082509E+06 days
 4656     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4658     Time Step No. = 680 Elapsed Time = 1.084509E+06 days
 4659     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4661     Time Step No. = 681 Elapsed Time = 1.086509E+06 days
 4662     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4664     Time Step No. = 682 Elapsed Time = 1.088509E+06 days
 4665     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4667     Time Step No. = 683 Elapsed Time = 1.090509E+06 days
 4668     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4670     Time Step No. = 684 Elapsed Time = 1.092509E+06 days
 4671     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4673     Time Step No. = 685 Elapsed Time = 1.094509E+06 days
 4674     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4677    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 4685     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 4686     CPU Time (total for run) = 1.87 sec = 0.00052 hr
 4687    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 4685     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 4686     CPU Time (total for run) = 1.35 sec = 0.00038 hr
 4687    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 4882     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) ASCII
 4884     Time Step No. = 686 Elapsed Time = 1.095752E+06 days
 4885     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
 4887     Time Step No. = 687 Elapsed Time = 1.097752E+06 days
 4888     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
 4890     Time Step No. = 688 Elapsed Time = 1.099752E+06 days
 4891     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
 4893     Time Step No. = 689 Elapsed Time = 1.101752E+06 days
 4894     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
 4896     Time Step No. = 690 Elapsed Time = 1.103752E+06 days
 4897     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
 4899     Time Step No. = 691 Elapsed Time = 1.105752E+06 days
 4900     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
 4902     Time Step No. = 692 Elapsed Time = 1.107752E+06 days
 4903     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
 4905     Time Step No. = 693 Elapsed Time = 1.109752E+06 days
 4906     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
 4908     Time Step No. = 694 Elapsed Time = 1.111752E+06 days
 4909     Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
 4911     Time Step No. = 695 Elapsed Time = 1.113752E+06 days
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4912    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
4914    Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
4917    Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
4920    Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
4923    Time Step No. = 699 Elapsed Time = 1.121752E+06 days
4924    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
4926    Time Step No. = 700 Elapsed Time = 1.123752E+06 days
4927    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
4929    Time Step No. = 701 Elapsed Time = 1.125752E+06 days
4930    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
4932    Time Step No. = 702 Elapsed Time = 1.127752E+06 days
4933    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
4935    Time Step No. = 703 Elapsed Time = 1.129752E+06 days
4936    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
4938    Time Step No. = 704 Elapsed Time = 1.131752E+06 days
4939    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
4941    Time Step No. = 705 Elapsed Time = 1.133752E+06 days
4942    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
4944    Time Step No. = 706 Elapsed Time = 1.135752E+06 days
4945    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
4947    Time Step No. = 707 Elapsed Time = 1.137752E+06 days
4948    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
4950    Time Step No. = 708 Elapsed Time = 1.139752E+06 days
4951    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
4953    Time Step No. = 709 Elapsed Time = 1.141752E+06 days
4954    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
4956    Time Step No. = 710 Elapsed Time = 1.143752E+06 days
4957    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
4959    Time Step No. = 711 Elapsed Time = 1.145752E+06 days
4960    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
4962    Time Step No. = 712 Elapsed Time = 1.147752E+06 days
4963    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
4965    Time Step No. = 713 Elapsed Time = 1.149752E+06 days
4966    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
4968    Time Step No. = 714 Elapsed Time = 1.151752E+06 days
4969    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
4971    Time Step No. = 715 Elapsed Time = 1.153752E+06 days
4972    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
4974    Time Step No. = 716 Elapsed Time = 1.155752E+06 days
4975    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4977    Time Step No. = 717 Elapsed Time = 1.157752E+06 days
4978    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4980    Time Step No. = 718 Elapsed Time = 1.159752E+06 days
4981    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4983    Time Step No. = 719 Elapsed Time = 1.161752E+06 days
4984    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4986    Time Step No. = 720 Elapsed Time = 1.163752E+06 days
4987    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4989    Time Step No. = 721 Elapsed Time = 1.165752E+06 days
4990    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4992    Time Step No. = 722 Elapsed Time = 1.167752E+06 days
4993    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4995    Time Step No. = 723 Elapsed Time = 1.169752E+06 days
4996    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
4998    Time Step No. = 724 Elapsed Time = 1.171752E+06 days
4999    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
5001    Time Step No. = 725 Elapsed Time = 1.173752E+06 days
5002    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
5004    Time Step No. = 726 Elapsed Time = 1.175752E+06 days
5005    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
5007    Time Step No. = 727 Elapsed Time = 1.177752E+06 days
5008    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
5010    Time Step No. = 728 Elapsed Time = 1.179752E+06 days
5011    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
5013    Time Step No. = 729 Elapsed Time = 1.181752E+06 days
5014    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
5016    Time Step No. = 730 Elapsed Time = 1.183752E+06 days
5017    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
5019    Time Step No. = 731 Elapsed Time = 1.185752E+06 days
5020    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
5022    Time Step No. = 732 Elapsed Time = 1.187752E+06 days
5023    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
5025    Time Step No. = 733 Elapsed Time = 1.189752E+06 days
```

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5026   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
5028   Time Step No. = 734 Elapsed Time = 1.191752E+06 days
5029   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
5031   Time Step No. = 735 Elapsed Time = 1.193752E+06 days
5032   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
5034   Time Step No. = 736 Elapsed Time = 1.195752E+06 days
5035   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
5037   Time Step No. = 737 Elapsed Time = 1.197752E+06 days
5038   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
5040   Time Step No. = 738 Elapsed Time = 1.199752E+06 days
5041   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
5043   Time Step No. = 739 Elapsed Time = 1.201752E+06 days
5044   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
5046   Time Step No. = 740 Elapsed Time = 1.203752E+06 days
5047   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
5049   Time Step No. = 741 Elapsed Time = 1.205752E+06 days
5050   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
5052   Time Step No. = 742 Elapsed Time = 1.207752E+06 days
5053   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
5055   Time Step No. = 743 Elapsed Time = 1.209752E+06 days
5056   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
5058   Time Step No. = 744 Elapsed Time = 1.211752E+06 days
5059   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5061   Time Step No. = 745 Elapsed Time = 1.213752E+06 days
5062   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5064   Time Step No. = 746 Elapsed Time = 1.215752E+06 days
5065   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5067   Time Step No. = 747 Elapsed Time = 1.217752E+06 days
5068   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5070   Time Step No. = 748 Elapsed Time = 1.219752E+06 days
5071   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5073   Time Step No. = 749 Elapsed Time = 1.221752E+06 days
5074   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5076   Time Step No. = 750 Elapsed Time = 1.223752E+06 days
5077   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5079   Time Step No. = 751 Elapsed Time = 1.225752E+06 days
5080   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5082   Time Step No. = 752 Elapsed Time = 1.227752E+06 days
5083   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5085   Time Step No. = 753 Elapsed Time = 1.229752E+06 days
5086   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5088   Time Step No. = 754 Elapsed Time = 1.231752E+06 days
5089   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5091   Time Step No. = 755 Elapsed Time = 1.233752E+06 days
5092   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
5094   Time Step No. = 756 Elapsed Time = 1.235752E+06 days
5095   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
5097   Time Step No. = 757 Elapsed Time = 1.237752E+06 days
5098   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
5100   Time Step No. = 758 Elapsed Time = 1.239752E+06 days
5101   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
5103   Time Step No. = 759 Elapsed Time = 1.241752E+06 days
5104   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
5106   Time Step No. = 760 Elapsed Time = 1.243752E+06 days
5107   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
5109   Time Step No. = 761 Elapsed Time = 1.245752E+06 days
5110   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
5112   Time Step No. = 762 Elapsed Time = 1.247752E+06 days
5113   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
5115   Time Step No. = 763 Elapsed Time = 1.249752E+06 days
5116   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
5118   Time Step No. = 764 Elapsed Time = 1.251752E+06 days
5119   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
5121   Time Step No. = 765 Elapsed Time = 1.253752E+06 days
5122   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
5124   Time Step No. = 766 Elapsed Time = 1.255752E+06 days
5125   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
5127   Time Step No. = 767 Elapsed Time = 1.257752E+06 days
5128   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
5130   Time Step No. = 768 Elapsed Time = 1.259752E+06 days
5131   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
5133   Time Step No. = 769 Elapsed Time = 1.261752E+06 days
5134   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
5136   Time Step No. = 770 Elapsed Time = 1.263752E+06 days
5137   Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
5139   Time Step No. = 771 Elapsed Time = 1.265752E+06 days
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5140    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
5142    Time Step No. = 772 Elapsed Time = 1.267752E+06 days
5143    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
5145    Time Step No. = 773 Elapsed Time = 1.269752E+06 days
5146    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
5148    Time Step No. = 774 Elapsed Time = 1.271752E+06 days
5149    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
5151    Time Step No. = 775 Elapsed Time = 1.273752E+06 days
5152    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
5154    Time Step No. = 776 Elapsed Time = 1.275752E+06 days
5155    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
5157    Time Step No. = 777 Elapsed Time = 1.277752E+06 days
5158    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
5160    Time Step No. = 778 Elapsed Time = 1.279752E+06 days
5161    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
5163    Time Step No. = 779 Elapsed Time = 1.281752E+06 days
5164    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
5166    Time Step No. = 780 Elapsed Time = 1.283752E+06 days
5167    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
5169    Time Step No. = 781 Elapsed Time = 1.285752E+06 days
5170    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
5172    Time Step No. = 782 Elapsed Time = 1.287752E+06 days
5173    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
5175    Time Step No. = 783 Elapsed Time = 1.289752E+06 days
5176    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
5178    Time Step No. = 784 Elapsed Time = 1.291752E+06 days
5179    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
5181    Time Step No. = 785 Elapsed Time = 1.293752E+06 days
5182    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
5184    Time Step No. = 786 Elapsed Time = 1.295752E+06 days
5185    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
5187    Time Step No. = 787 Elapsed Time = 1.297752E+06 days
5188    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
5190    Time Step No. = 788 Elapsed Time = 1.299752E+06 days
5191    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
5193    Time Step No. = 789 Elapsed Time = 1.301752E+06 days
5194    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
5196    Time Step No. = 790 Elapsed Time = 1.303752E+06 days
5197    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
5199    Time Step No. = 791 Elapsed Time = 1.305752E+06 days
5200    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
5202    Time Step No. = 792 Elapsed Time = 1.307752E+06 days
5203    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
5205    Time Step No. = 793 Elapsed Time = 1.309752E+06 days
5206    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
5208    Time Step No. = 794 Elapsed Time = 1.311752E+06 days
5209    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
5211    Time Step No. = 795 Elapsed Time = 1.313752E+06 days
5212    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
5214    Time Step No. = 796 Elapsed Time = 1.315752E+06 days
5215    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
5217    Time Step No. = 797 Elapsed Time = 1.317752E+06 days
5218    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
5220    Time Step No. = 798 Elapsed Time = 1.319752E+06 days
5221    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
5223    Time Step No. = 799 Elapsed Time = 1.321752E+06 days
5224    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
5226    Time Step No. = 800 Elapsed Time = 1.323752E+06 days
5227    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5229    Time Step No. = 801 Elapsed Time = 1.325752E+06 days
5230    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5232    Time Step No. = 802 Elapsed Time = 1.327752E+06 days
5233    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5235    Time Step No. = 803 Elapsed Time = 1.329752E+06 days
5236    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5238    Time Step No. = 804 Elapsed Time = 1.331752E+06 days
5239    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5241    Time Step No. = 805 Elapsed Time = 1.333752E+06 days
5242    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5244    Time Step No. = 806 Elapsed Time = 1.335752E+06 days
5245    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5247    Time Step No. = 807 Elapsed Time = 1.337752E+06 days
5248    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5250    Time Step No. = 808 Elapsed Time = 1.339752E+06 days
5251    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5253    Time Step No. = 809 Elapsed Time = 1.341752E+06 days
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5254    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
5256    Time Step No. = 810 Elapsed Time = 1.343752E+06 days
5257    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
5259    Time Step No. = 811 Elapsed Time = 1.345752E+06 days
5260    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
5262    Time Step No. = 812 Elapsed Time = 1.347752E+06 days
5263    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
5265    Time Step No. = 813 Elapsed Time = 1.349752E+06 days
5266    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
5268    Time Step No. = 814 Elapsed Time = 1.351752E+06 days
5269    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
5271    Time Step No. = 815 Elapsed Time = 1.353752E+06 days
5272    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
5274    Time Step No. = 816 Elapsed Time = 1.355752E+06 days
5275    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
5277    Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
5280    Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
5283    Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
5286    Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
5289    Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
5292    Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
5295    Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
5298    Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
5301    Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
5304    Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
5307    Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
5310    Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
5313    Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
5316    Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
5319    Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
5322    Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
5325    Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
5328    Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
5331    Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
5334    Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
5337    Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
5340    Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
5343    Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
5346    Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
5349    Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
5352    Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
5355    Time Step No. = 843 Elapsed Time = 1.409752E+06 days
5356    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
5358    Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
5361    Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
5364    Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
5367    Time Step No. = 847 Elapsed Time = 1.417752E+06 days
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5368    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
5370    Time Step No. = 848 Elapsed Time = 1.419752E+06 days
5371    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
5373    Time Step No. = 849 Elapsed Time = 1.421752E+06 days
5374    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
5376    Time Step No. = 850 Elapsed Time = 1.423752E+06 days
5377    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
5379    Time Step No. = 851 Elapsed Time = 1.425752E+06 days
5380    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
5382    Time Step No. = 852 Elapsed Time = 1.427752E+06 days
5383    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
5385    Time Step No. = 853 Elapsed Time = 1.429752E+06 days
5386    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
5388    Time Step No. = 854 Elapsed Time = 1.431752E+06 days
5389    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
5391    Time Step No. = 855 Elapsed Time = 1.433752E+06 days
5392    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
5394    Time Step No. = 856 Elapsed Time = 1.435752E+06 days
5395    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
5397    Time Step No. = 857 Elapsed Time = 1.437752E+06 days
5398    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
5400    Time Step No. = 858 Elapsed Time = 1.439752E+06 days
5401    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
5403    Time Step No. = 859 Elapsed Time = 1.441752E+06 days
5404    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
5406    Time Step No. = 860 Elapsed Time = 1.443752E+06 days
5407    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
5409    Time Step No. = 861 Elapsed Time = 1.445752E+06 days
5410    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
5412    Time Step No. = 862 Elapsed Time = 1.447752E+06 days
5413    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
5415    Time Step No. = 863 Elapsed Time = 1.449752E+06 days
5416    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
5418    Time Step No. = 864 Elapsed Time = 1.451752E+06 days
5419    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
5421    Time Step No. = 865 Elapsed Time = 1.453752E+06 days
5422    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
5424    Time Step No. = 866 Elapsed Time = 1.455752E+06 days
5425    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
5427    Time Step No. = 867 Elapsed Time = 1.457752E+06 days
5428    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
5430    Time Step No. = 868 Elapsed Time = 1.459752E+06 days
5431    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5433    Time Step No. = 869 Elapsed Time = 1.461752E+06 days
5434    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5436    Time Step No. = 870 Elapsed Time = 1.463752E+06 days
5437    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5439    Time Step No. = 871 Elapsed Time = 1.465752E+06 days
5440    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5442    Time Step No. = 872 Elapsed Time = 1.467752E+06 days
5443    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5445    Time Step No. = 873 Elapsed Time = 1.469752E+06 days
5446    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5448    Time Step No. = 874 Elapsed Time = 1.471752E+06 days
5449    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5451    Time Step No. = 875 Elapsed Time = 1.473752E+06 days
5452    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
5454    Time Step No. = 876 Elapsed Time = 1.475752E+06 days
5455    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
5457    Time Step No. = 877 Elapsed Time = 1.477752E+06 days
5458    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
5460    Time Step No. = 878 Elapsed Time = 1.479752E+06 days
5461    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
5463    Time Step No. = 879 Elapsed Time = 1.481752E+06 days
5464    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
5466    Time Step No. = 880 Elapsed Time = 1.483752E+06 days
5467    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
5469    Time Step No. = 881 Elapsed Time = 1.485752E+06 days
5470    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
5472    Time Step No. = 882 Elapsed Time = 1.487752E+06 days
5473    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
5475    Time Step No. = 883 Elapsed Time = 1.489752E+06 days
5476    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
5478    Time Step No. = 884 Elapsed Time = 1.491752E+06 days
5479    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
5481    Time Step No. = 885 Elapsed Time = 1.493752E+06 days
```

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5482	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
5484	Time Step No. = 886 Elapsed Time = 1.495752E+06 days
5485	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
5487	Time Step No. = 887 Elapsed Time = 1.497752E+06 days
5488	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
5490	Time Step No. = 888 Elapsed Time = 1.499752E+06 days
5491	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
5493	Time Step No. = 889 Elapsed Time = 1.501752E+06 days
5494	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
5496	Time Step No. = 890 Elapsed Time = 1.503752E+06 days
5497	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
5499	Time Step No. = 891 Elapsed Time = 1.505752E+06 days
5500	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
5502	Time Step No. = 892 Elapsed Time = 1.507752E+06 days
5503	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
5505	Time Step No. = 893 Elapsed Time = 1.509752E+06 days
5506	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
5508	Time Step No. = 894 Elapsed Time = 1.511752E+06 days
5509	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
5511	Time Step No. = 895 Elapsed Time = 1.513752E+06 days
5512	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
5514	Time Step No. = 896 Elapsed Time = 1.515752E+06 days
5515	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
5517	Time Step No. = 897 Elapsed Time = 1.517752E+06 days
5518	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
5520	Time Step No. = 898 Elapsed Time = 1.519752E+06 days
5521	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
5523	Time Step No. = 899 Elapsed Time = 1.521752E+06 days
5524	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
5526	Time Step No. = 900 Elapsed Time = 1.523752E+06 days
5527	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
5529	Time Step No. = 901 Elapsed Time = 1.525752E+06 days
5530	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
5532	Time Step No. = 902 Elapsed Time = 1.527752E+06 days
5533	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
5535	Time Step No. = 903 Elapsed Time = 1.529752E+06 days
5536	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
5538	Time Step No. = 904 Elapsed Time = 1.531752E+06 days
5539	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
5541	Time Step No. = 905 Elapsed Time = 1.533752E+06 days
5542	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
5544	Time Step No. = 906 Elapsed Time = 1.535752E+06 days
5545	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
5547	Time Step No. = 907 Elapsed Time = 1.537752E+06 days
5548	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
5550	Time Step No. = 908 Elapsed Time = 1.539752E+06 days
5551	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
5553	Time Step No. = 909 Elapsed Time = 1.541752E+06 days
5554	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
5556	Time Step No. = 910 Elapsed Time = 1.543752E+06 days
5557	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
5559	Time Step No. = 911 Elapsed Time = 1.545752E+06 days
5560	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
5562	Time Step No. = 912 Elapsed Time = 1.547752E+06 days
5563	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
5565	Time Step No. = 913 Elapsed Time = 1.549752E+06 days
5566	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
5568	Time Step No. = 914 Elapsed Time = 1.551752E+06 days
5569	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
5571	Time Step No. = 915 Elapsed Time = 1.553752E+06 days
5572	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
5574	Time Step No. = 916 Elapsed Time = 1.555752E+06 days
5575	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
5577	Time Step No. = 917 Elapsed Time = 1.557752E+06 days
5578	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
5580	Time Step No. = 918 Elapsed Time = 1.559752E+06 days
5581	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
5583	Time Step No. = 919 Elapsed Time = 1.561752E+06 days
5584	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
5586	Time Step No. = 920 Elapsed Time = 1.563752E+06 days
5587	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
5589	Time Step No. = 921 Elapsed Time = 1.565752E+06 days
5590	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
5592	Time Step No. = 922 Elapsed Time = 1.567752E+06 days
5593	Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
5595	Time Step No. = 923 Elapsed Time = 1.569752E+06 days
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5596    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
5598    Time Step No. = 924 Elapsed Time = 1.571752E+06 days
5599    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
5601    Time Step No. = 925 Elapsed Time = 1.573752E+06 days
5602    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
5604    Time Step No. = 926 Elapsed Time = 1.575752E+06 days
5605    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
5607    Time Step No. = 927 Elapsed Time = 1.577752E+06 days
5608    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
5610    Time Step No. = 928 Elapsed Time = 1.579752E+06 days
5611    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
5613    Time Step No. = 929 Elapsed Time = 1.581752E+06 days
5614    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
5616    Time Step No. = 930 Elapsed Time = 1.583752E+06 days
5617    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
5619    Time Step No. = 931 Elapsed Time = 1.585752E+06 days
5620    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
5622    Time Step No. = 932 Elapsed Time = 1.587752E+06 days
5623    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
5625    Time Step No. = 933 Elapsed Time = 1.589752E+06 days
5626    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
5628    Time Step No. = 934 Elapsed Time = 1.591752E+06 days
5629    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
5631    Time Step No. = 935 Elapsed Time = 1.593752E+06 days
5632    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
5634    Time Step No. = 936 Elapsed Time = 1.595752E+06 days
5635    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
5637    Time Step No. = 937 Elapsed Time = 1.597752E+06 days
5638    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
5640    Time Step No. = 938 Elapsed Time = 1.599752E+06 days
5641    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
5643    Time Step No. = 939 Elapsed Time = 1.601752E+06 days
5644    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
5646    Time Step No. = 940 Elapsed Time = 1.603752E+06 days
5647    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
5649    Time Step No. = 941 Elapsed Time = 1.605752E+06 days
5650    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
5652    Time Step No. = 942 Elapsed Time = 1.607752E+06 days
5653    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
5655    Time Step No. = 943 Elapsed Time = 1.609752E+06 days
5656    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
5658    Time Step No. = 944 Elapsed Time = 1.611752E+06 days
5659    Date: 02/15/07 Time: 12:57:57 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
5661    Time Step No. = 945 Elapsed Time = 1.613752E+06 days
5662    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
5664    Time Step No. = 946 Elapsed Time = 1.615752E+06 days
5665    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
5667    Time Step No. = 947 Elapsed Time = 1.617752E+06 days
5668    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
5670    Time Step No. = 948 Elapsed Time = 1.619752E+06 days
5671    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
5673    Time Step No. = 949 Elapsed Time = 1.621752E+06 days
5674    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
5676    Time Step No. = 950 Elapsed Time = 1.623752E+06 days
5677    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
5679    Time Step No. = 951 Elapsed Time = 1.625752E+06 days
5680    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
5682    Time Step No. = 952 Elapsed Time = 1.627752E+06 days
5683    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
5685    Time Step No. = 953 Elapsed Time = 1.629752E+06 days
5686    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
5688    Time Step No. = 954 Elapsed Time = 1.631752E+06 days
5689    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
5691    Time Step No. = 955 Elapsed Time = 1.633752E+06 days
5692    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
5694    Time Step No. = 956 Elapsed Time = 1.635752E+06 days
5695    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
5697    Time Step No. = 957 Elapsed Time = 1.637752E+06 days
5698    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
5700    Time Step No. = 958 Elapsed Time = 1.639752E+06 days
5701    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
5703    Time Step No. = 959 Elapsed Time = 1.641752E+06 days
5704    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
5706    Time Step No. = 960 Elapsed Time = 1.643752E+06 days
5707    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
5709    Time Step No. = 961 Elapsed Time = 1.645752E+06 days
```

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5710    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
5712    Time Step No. = 962 Elapsed Time = 1.647752E+06 days
5713    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
5715    Time Step No. = 963 Elapsed Time = 1.649752E+06 days
5716    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
5718    Time Step No. = 964 Elapsed Time = 1.651752E+06 days
5719    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
5721    Time Step No. = 965 Elapsed Time = 1.653752E+06 days
5722    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
5724    Time Step No. = 966 Elapsed Time = 1.655752E+06 days
5725    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
5727    Time Step No. = 967 Elapsed Time = 1.657752E+06 days
5728    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
5730    Time Step No. = 968 Elapsed Time = 1.659752E+06 days
5731    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
5733    Time Step No. = 969 Elapsed Time = 1.661752E+06 days
5734    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
5736    Time Step No. = 970 Elapsed Time = 1.663752E+06 days
5737    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
5739    Time Step No. = 971 Elapsed Time = 1.665752E+06 days
5740    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
5742    Time Step No. = 972 Elapsed Time = 1.667752E+06 days
5743    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
5745    Time Step No. = 973 Elapsed Time = 1.669752E+06 days
5746    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
5748    Time Step No. = 974 Elapsed Time = 1.671752E+06 days
5749    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
5751    Time Step No. = 975 Elapsed Time = 1.673752E+06 days
5752    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5754    Time Step No. = 976 Elapsed Time = 1.675752E+06 days
5755    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5757    Time Step No. = 977 Elapsed Time = 1.677752E+06 days
5758    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5760    Time Step No. = 978 Elapsed Time = 1.679752E+06 days
5761    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5763    Time Step No. = 979 Elapsed Time = 1.681752E+06 days
5764    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5766    Time Step No. = 980 Elapsed Time = 1.683752E+06 days
5767    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5769    Time Step No. = 981 Elapsed Time = 1.685752E+06 days
5770    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5772    Time Step No. = 982 Elapsed Time = 1.687752E+06 days
5773    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
5775    Time Step No. = 983 Elapsed Time = 1.689752E+06 days
5776    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
5778    Time Step No. = 984 Elapsed Time = 1.691752E+06 days
5779    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
5781    Time Step No. = 985 Elapsed Time = 1.693752E+06 days
5782    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
5784    Time Step No. = 986 Elapsed Time = 1.695752E+06 days
5785    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
5787    Time Step No. = 987 Elapsed Time = 1.697752E+06 days
5788    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
5790    Time Step No. = 988 Elapsed Time = 1.699752E+06 days
5791    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
5793    Time Step No. = 989 Elapsed Time = 1.701752E+06 days
5794    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
5796    Time Step No. = 990 Elapsed Time = 1.703752E+06 days
5797    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
5799    Time Step No. = 991 Elapsed Time = 1.705752E+06 days
5800    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
5802    Time Step No. = 992 Elapsed Time = 1.707752E+06 days
5803    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
5805    Time Step No. = 993 Elapsed Time = 1.709752E+06 days
5806    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
5808    Time Step No. = 994 Elapsed Time = 1.711752E+06 days
5809    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
5811    Time Step No. = 995 Elapsed Time = 1.713752E+06 days
5812    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
5814    Time Step No. = 996 Elapsed Time = 1.715752E+06 days
5815    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
5817    Time Step No. = 997 Elapsed Time = 1.717752E+06 days
5818    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
5820    Time Step No. = 998 Elapsed Time = 1.719752E+06 days
5821    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
5823    Time Step No. = 999 Elapsed Time = 1.721752E+06 days
```

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5824    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
5826    Time Step No. = 1000 Elapsed Time = 1.723752E+06 days
5827    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
5829    Time Step No. = 1001 Elapsed Time = 1.725752E+06 days
5830    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
5832    Time Step No. = 1002 Elapsed Time = 1.727752E+06 days
5833    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5835    Time Step No. = 1003 Elapsed Time = 1.729752E+06 days
5836    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5838    Time Step No. = 1004 Elapsed Time = 1.731752E+06 days
5839    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5841    Time Step No. = 1005 Elapsed Time = 1.733752E+06 days
5842    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5844    Time Step No. = 1006 Elapsed Time = 1.735752E+06 days
5845    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5847    Time Step No. = 1007 Elapsed Time = 1.737752E+06 days
5848    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5850    Time Step No. = 1008 Elapsed Time = 1.739752E+06 days
5851    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5853    Time Step No. = 1009 Elapsed Time = 1.741752E+06 days
5854    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5856    Time Step No. = 1010 Elapsed Time = 1.743752E+06 days
5857    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
5859    Time Step No. = 1011 Elapsed Time = 1.745752E+06 days
5860    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
5862    Time Step No. = 1012 Elapsed Time = 1.747752E+06 days
5863    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
5865    Time Step No. = 1013 Elapsed Time = 1.749752E+06 days
5866    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
5868    Time Step No. = 1014 Elapsed Time = 1.751752E+06 days
5869    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
5871    Time Step No. = 1015 Elapsed Time = 1.753752E+06 days
5872    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
5874    Time Step No. = 1016 Elapsed Time = 1.755752E+06 days
5875    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
5877    Time Step No. = 1017 Elapsed Time = 1.757752E+06 days
5878    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
5880    Time Step No. = 1018 Elapsed Time = 1.759752E+06 days
5881    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
5883    Time Step No. = 1019 Elapsed Time = 1.761752E+06 days
5884    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
5886    Time Step No. = 1020 Elapsed Time = 1.763752E+06 days
5887    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5889    Time Step No. = 1021 Elapsed Time = 1.765752E+06 days
5890    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5892    Time Step No. = 1022 Elapsed Time = 1.767752E+06 days
5893    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5895    Time Step No. = 1023 Elapsed Time = 1.769752E+06 days
5896    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5898    Time Step No. = 1024 Elapsed Time = 1.771752E+06 days
5899    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5901    Time Step No. = 1025 Elapsed Time = 1.773752E+06 days
5902    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5904    Time Step No. = 1026 Elapsed Time = 1.775752E+06 days
5905    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
5907    Time Step No. = 1027 Elapsed Time = 1.777752E+06 days
5908    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
5910    Time Step No. = 1028 Elapsed Time = 1.779752E+06 days
5911    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
5913    Time Step No. = 1029 Elapsed Time = 1.781752E+06 days
5914    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
5916    Time Step No. = 1030 Elapsed Time = 1.783752E+06 days
5917    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
5919    Time Step No. = 1031 Elapsed Time = 1.785752E+06 days
5920    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
5922    Time Step No. = 1032 Elapsed Time = 1.787752E+06 days
5923    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
5925    Time Step No. = 1033 Elapsed Time = 1.789752E+06 days
5926    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
5928    Time Step No. = 1034 Elapsed Time = 1.791752E+06 days
5929    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
5931    Time Step No. = 1035 Elapsed Time = 1.793752E+06 days
5932    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
5934    Time Step No. = 1036 Elapsed Time = 1.795752E+06 days
5935    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
5937    Time Step No. = 1037 Elapsed Time = 1.797752E+06 days
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5938    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
5940    Time Step No. = 1038 Elapsed Time = 1.799752E+06 days
5941    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
5943    Time Step No. = 1039 Elapsed Time = 1.801752E+06 days
5944    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
5946    Time Step No. = 1040 Elapsed Time = 1.803752E+06 days
5947    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
5949    Time Step No. = 1041 Elapsed Time = 1.805752E+06 days
5950    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
5952    Time Step No. = 1042 Elapsed Time = 1.807752E+06 days
5953    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
5955    Time Step No. = 1043 Elapsed Time = 1.809752E+06 days
5956    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
5958    Time Step No. = 1044 Elapsed Time = 1.811752E+06 days
5959    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
5961    Time Step No. = 1045 Elapsed Time = 1.813752E+06 days
5962    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
5964    Time Step No. = 1046 Elapsed Time = 1.815752E+06 days
5965    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
5967    Time Step No. = 1047 Elapsed Time = 1.817752E+06 days
5968    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
5970    Time Step No. = 1048 Elapsed Time = 1.819752E+06 days
5971    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
5973    Time Step No. = 1049 Elapsed Time = 1.821752E+06 days
5974    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
5976    Time Step No. = 1050 Elapsed Time = 1.823752E+06 days
5977    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
5979    Time Step No. = 1051 Elapsed Time = 1.825752E+06 days
5980    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
5982    Time Step No. = 1052 Elapsed Time = 1.827752E+06 days
5983    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
5985    Time Step No. = 1053 Elapsed Time = 1.829752E+06 days
5986    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
5988    Time Step No. = 1054 Elapsed Time = 1.831752E+06 days
5989    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
5991    Time Step No. = 1055 Elapsed Time = 1.833752E+06 days
5992    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
5994    Time Step No. = 1056 Elapsed Time = 1.835752E+06 days
5995    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
5997    Time Step No. = 1057 Elapsed Time = 1.837752E+06 days
5998    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
6000    Time Step No. = 1058 Elapsed Time = 1.839752E+06 days
6001    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
6003    Time Step No. = 1059 Elapsed Time = 1.841752E+06 days
6004    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
6006    Time Step No. = 1060 Elapsed Time = 1.843752E+06 days
6007    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
6009    Time Step No. = 1061 Elapsed Time = 1.845752E+06 days
6010    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
6012    Time Step No. = 1062 Elapsed Time = 1.847752E+06 days
6013    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
6015    Time Step No. = 1063 Elapsed Time = 1.849752E+06 days
6016    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
6018    Time Step No. = 1064 Elapsed Time = 1.851752E+06 days
6019    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
6021    Time Step No. = 1065 Elapsed Time = 1.853752E+06 days
6022    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
6024    Time Step No. = 1066 Elapsed Time = 1.855752E+06 days
6025    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
6027    Time Step No. = 1067 Elapsed Time = 1.857752E+06 days
6028    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
6030    Time Step No. = 1068 Elapsed Time = 1.859752E+06 days
6031    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
6033    Time Step No. = 1069 Elapsed Time = 1.861752E+06 days
6034    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
6036    Time Step No. = 1070 Elapsed Time = 1.863752E+06 days
6037    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
6039    Time Step No. = 1071 Elapsed Time = 1.865752E+06 days
6040    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
6042    Time Step No. = 1072 Elapsed Time = 1.867752E+06 days
6043    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
6045    Time Step No. = 1073 Elapsed Time = 1.869752E+06 days
6046    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
6048    Time Step No. = 1074 Elapsed Time = 1.871752E+06 days
6049    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
6051    Time Step No. = 1075 Elapsed Time = 1.873752E+06 days
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6052    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
6054    Time Step No. = 1076 Elapsed Time = 1.875752E+06 days
6055    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
6057    Time Step No. = 1077 Elapsed Time = 1.877752E+06 days
6058    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
6060    Time Step No. = 1078 Elapsed Time = 1.879752E+06 days
6061    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
6063    Time Step No. = 1079 Elapsed Time = 1.881752E+06 days
6064    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
6066    Time Step No. = 1080 Elapsed Time = 1.883752E+06 days
6067    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
6069    Time Step No. = 1081 Elapsed Time = 1.885752E+06 days
6070    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
6072    Time Step No. = 1082 Elapsed Time = 1.887752E+06 days
6073    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
6075    Time Step No. = 1083 Elapsed Time = 1.889752E+06 days
6076    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
6078    Time Step No. = 1084 Elapsed Time = 1.891752E+06 days
6079    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
6081    Time Step No. = 1085 Elapsed Time = 1.893752E+06 days
6082    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
6084    Time Step No. = 1086 Elapsed Time = 1.895752E+06 days
6085    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
6087    Time Step No. = 1087 Elapsed Time = 1.897752E+06 days
6088    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
6090    Time Step No. = 1088 Elapsed Time = 1.899752E+06 days
6091    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
6093    Time Step No. = 1089 Elapsed Time = 1.901752E+06 days
6094    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
6096    Time Step No. = 1090 Elapsed Time = 1.903752E+06 days
6097    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
6099    Time Step No. = 1091 Elapsed Time = 1.905752E+06 days
6100    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
6102    Time Step No. = 1092 Elapsed Time = 1.907752E+06 days
6103    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
6105    Time Step No. = 1093 Elapsed Time = 1.909752E+06 days
6106    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
6108    Time Step No. = 1094 Elapsed Time = 1.911752E+06 days
6109    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
6111    Time Step No. = 1095 Elapsed Time = 1.913752E+06 days
6112    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
6114    Time Step No. = 1096 Elapsed Time = 1.915752E+06 days
6115    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
6117    Time Step No. = 1097 Elapsed Time = 1.917752E+06 days
6118    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
6120    Time Step No. = 1098 Elapsed Time = 1.919752E+06 days
6121    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
6123    Time Step No. = 1099 Elapsed Time = 1.921752E+06 days
6124    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
6126    Time Step No. = 1100 Elapsed Time = 1.923752E+06 days
6127    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
6129    Time Step No. = 1101 Elapsed Time = 1.925752E+06 days
6130    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
6132    Time Step No. = 1102 Elapsed Time = 1.927752E+06 days
6133    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
6135    Time Step No. = 1103 Elapsed Time = 1.929752E+06 days
6136    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
6138    Time Step No. = 1104 Elapsed Time = 1.931752E+06 days
6139    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
6141    Time Step No. = 1105 Elapsed Time = 1.933752E+06 days
6142    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
6144    Time Step No. = 1106 Elapsed Time = 1.935752E+06 days
6145    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
6147    Time Step No. = 1107 Elapsed Time = 1.937752E+06 days
6148    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
6150    Time Step No. = 1108 Elapsed Time = 1.939752E+06 days
6151    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
6153    Time Step No. = 1109 Elapsed Time = 1.941752E+06 days
6154    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
6156    Time Step No. = 1110 Elapsed Time = 1.943752E+06 days
6157    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
6159    Time Step No. = 1111 Elapsed Time = 1.945752E+06 days
6160    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
6162    Time Step No. = 1112 Elapsed Time = 1.947752E+06 days
6163    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
6165    Time Step No. = 1113 Elapsed Time = 1.949752E+06 days
```

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6166    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
6168    Time Step No. = 1114 Elapsed Time = 1.951752E+06 days
6169    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
6171    Time Step No. = 1115 Elapsed Time = 1.953752E+06 days
6172    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
6174    Time Step No. = 1116 Elapsed Time = 1.955752E+06 days
6175    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
6177    Time Step No. = 1117 Elapsed Time = 1.957752E+06 days
6178    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6180    Time Step No. = 1118 Elapsed Time = 1.959752E+06 days
6181    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6183    Time Step No. = 1119 Elapsed Time = 1.961752E+06 days
6184    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6186    Time Step No. = 1120 Elapsed Time = 1.963752E+06 days
6187    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6189    Time Step No. = 1121 Elapsed Time = 1.965752E+06 days
6190    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6192    Time Step No. = 1122 Elapsed Time = 1.967752E+06 days
6193    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6195    Time Step No. = 1123 Elapsed Time = 1.969752E+06 days
6196    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6198    Time Step No. = 1124 Elapsed Time = 1.971752E+06 days
6199    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6201    Time Step No. = 1125 Elapsed Time = 1.973752E+06 days
6202    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
6204    Time Step No. = 1126 Elapsed Time = 1.975752E+06 days
6205    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
6207    Time Step No. = 1127 Elapsed Time = 1.977752E+06 days
6208    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6210    Time Step No. = 1128 Elapsed Time = 1.979752E+06 days
6211    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6213    Time Step No. = 1129 Elapsed Time = 1.981752E+06 days
6214    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6216    Time Step No. = 1130 Elapsed Time = 1.983752E+06 days
6217    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6219    Time Step No. = 1131 Elapsed Time = 1.985752E+06 days
6220    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6222    Time Step No. = 1132 Elapsed Time = 1.987752E+06 days
6223    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
6225    Time Step No. = 1133 Elapsed Time = 1.989752E+06 days
6226    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
6228    Time Step No. = 1134 Elapsed Time = 1.991752E+06 days
6229    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
6231    Time Step No. = 1135 Elapsed Time = 1.993752E+06 days
6232    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
6234    Time Step No. = 1136 Elapsed Time = 1.995752E+06 days
6235    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
6237    Time Step No. = 1137 Elapsed Time = 1.997752E+06 days
6238    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
6240    Time Step No. = 1138 Elapsed Time = 1.999752E+06 days
6241    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
6243    Time Step No. = 1139 Elapsed Time = 2.001752E+06 days
6244    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
6246    Time Step No. = 1140 Elapsed Time = 2.003752E+06 days
6247    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
6249    Time Step No. = 1141 Elapsed Time = 2.005752E+06 days
6250    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
6252    Time Step No. = 1142 Elapsed Time = 2.007752E+06 days
6253    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
6255    Time Step No. = 1143 Elapsed Time = 2.009752E+06 days
6256    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
6258    Time Step No. = 1144 Elapsed Time = 2.011752E+06 days
6259    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
6261    Time Step No. = 1145 Elapsed Time = 2.013752E+06 days
6262    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
6264    Time Step No. = 1146 Elapsed Time = 2.015752E+06 days
6265    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
6267    Time Step No. = 1147 Elapsed Time = 2.017752E+06 days
6268    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
6270    Time Step No. = 1148 Elapsed Time = 2.019752E+06 days
6271    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
6273    Time Step No. = 1149 Elapsed Time = 2.021752E+06 days
6274    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
6276    Time Step No. = 1150 Elapsed Time = 2.023752E+06 days
6277    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
6279    Time Step No. = 1151 Elapsed Time = 2.025752E+06 days
```

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6280    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
6282    Time Step No. = 1152 Elapsed Time = 2.027752E+06 days
6283    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
6285    Time Step No. = 1153 Elapsed Time = 2.029752E+06 days
6286    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
6288    Time Step No. = 1154 Elapsed Time = 2.031752E+06 days
6289    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
6291    Time Step No. = 1155 Elapsed Time = 2.033752E+06 days
6292    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
6294    Time Step No. = 1156 Elapsed Time = 2.035752E+06 days
6295    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
6297    Time Step No. = 1157 Elapsed Time = 2.037752E+06 days
6298    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
6300    Time Step No. = 1158 Elapsed Time = 2.039752E+06 days
6301    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
6303    Time Step No. = 1159 Elapsed Time = 2.041752E+06 days
6304    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
6306    Time Step No. = 1160 Elapsed Time = 2.043752E+06 days
6307    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
6309    Time Step No. = 1161 Elapsed Time = 2.045752E+06 days
6310    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
6312    Time Step No. = 1162 Elapsed Time = 2.047752E+06 days
6313    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
6315    Time Step No. = 1163 Elapsed Time = 2.049752E+06 days
6316    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
6318    Time Step No. = 1164 Elapsed Time = 2.051752E+06 days
6319    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
6321    Time Step No. = 1165 Elapsed Time = 2.053752E+06 days
6322    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
6324    Time Step No. = 1166 Elapsed Time = 2.055752E+06 days
6325    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
6327    Time Step No. = 1167 Elapsed Time = 2.057752E+06 days
6328    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
6330    Time Step No. = 1168 Elapsed Time = 2.059752E+06 days
6331    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
6333    Time Step No. = 1169 Elapsed Time = 2.061752E+06 days
6334    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
6336    Time Step No. = 1170 Elapsed Time = 2.063752E+06 days
6337    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
6339    Time Step No. = 1171 Elapsed Time = 2.065752E+06 days
6340    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
6342    Time Step No. = 1172 Elapsed Time = 2.067752E+06 days
6343    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
6345    Time Step No. = 1173 Elapsed Time = 2.069752E+06 days
6346    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
6348    Time Step No. = 1174 Elapsed Time = 2.071752E+06 days
6349    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
6351    Time Step No. = 1175 Elapsed Time = 2.073752E+06 days
6352    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
6354    Time Step No. = 1176 Elapsed Time = 2.075752E+06 days
6355    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
6357    Time Step No. = 1177 Elapsed Time = 2.077752E+06 days
6358    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
6360    Time Step No. = 1178 Elapsed Time = 2.079752E+06 days
6361    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
6363    Time Step No. = 1179 Elapsed Time = 2.081752E+06 days
6364    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
6366    Time Step No. = 1180 Elapsed Time = 2.083752E+06 days
6367    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
6369    Time Step No. = 1181 Elapsed Time = 2.085752E+06 days
6370    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
6372    Time Step No. = 1182 Elapsed Time = 2.087752E+06 days
6373    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
6375    Time Step No. = 1183 Elapsed Time = 2.089752E+06 days
6376    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
6378    Time Step No. = 1184 Elapsed Time = 2.091752E+06 days
6379    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
6381    Time Step No. = 1185 Elapsed Time = 2.093752E+06 days
6382    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
6384    Time Step No. = 1186 Elapsed Time = 2.095752E+06 days
6385    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
6387    Time Step No. = 1187 Elapsed Time = 2.097752E+06 days
6388    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
6390    Time Step No. = 1188 Elapsed Time = 2.099752E+06 days
6391    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6393    Time Step No. = 1189 Elapsed Time = 2.101752E+06 days
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6394   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6396   Time Step No. = 1190 Elapsed Time = 2.103752E+06 days
6397   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6399   Time Step No. = 1191 Elapsed Time = 2.105752E+06 days
6400   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6402   Time Step No. = 1192 Elapsed Time = 2.107752E+06 days
6403   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6405   Time Step No. = 1193 Elapsed Time = 2.109752E+06 days
6406   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
6408   Time Step No. = 1194 Elapsed Time = 2.111752E+06 days
6409   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
6411   Time Step No. = 1195 Elapsed Time = 2.113752E+06 days
6412   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
6414   Time Step No. = 1196 Elapsed Time = 2.115752E+06 days
6415   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
6417   Time Step No. = 1197 Elapsed Time = 2.117752E+06 days
6418   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
6420   Time Step No. = 1198 Elapsed Time = 2.119752E+06 days
6421   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
6423   Time Step No. = 1199 Elapsed Time = 2.121752E+06 days
6424   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
6426   Time Step No. = 1200 Elapsed Time = 2.123752E+06 days
6427   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
6429   Time Step No. = 1201 Elapsed Time = 2.125752E+06 days
6430   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
6432   Time Step No. = 1202 Elapsed Time = 2.127752E+06 days
6433   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
6435   Time Step No. = 1203 Elapsed Time = 2.129752E+06 days
6436   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
6438   Time Step No. = 1204 Elapsed Time = 2.131752E+06 days
6439   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
6441   Time Step No. = 1205 Elapsed Time = 2.133752E+06 days
6442   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
6444   Time Step No. = 1206 Elapsed Time = 2.135752E+06 days
6445   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
6447   Time Step No. = 1207 Elapsed Time = 2.137752E+06 days
6448   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
6450   Time Step No. = 1208 Elapsed Time = 2.139752E+06 days
6451   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
6453   Time Step No. = 1209 Elapsed Time = 2.141752E+06 days
6454   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
6456   Time Step No. = 1210 Elapsed Time = 2.143752E+06 days
6457   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
6459   Time Step No. = 1211 Elapsed Time = 2.145752E+06 days
6460   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
6462   Time Step No. = 1212 Elapsed Time = 2.147752E+06 days
6463   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
6465   Time Step No. = 1213 Elapsed Time = 2.149752E+06 days
6466   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
6468   Time Step No. = 1214 Elapsed Time = 2.151752E+06 days
6469   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
6471   Time Step No. = 1215 Elapsed Time = 2.153752E+06 days
6472   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
6474   Time Step No. = 1216 Elapsed Time = 2.155752E+06 days
6475   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
6477   Time Step No. = 1217 Elapsed Time = 2.157752E+06 days
6478   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
6480   Time Step No. = 1218 Elapsed Time = 2.159752E+06 days
6481   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
6483   Time Step No. = 1219 Elapsed Time = 2.161752E+06 days
6484   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
6486   Time Step No. = 1220 Elapsed Time = 2.163752E+06 days
6487   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
6489   Time Step No. = 1221 Elapsed Time = 2.165752E+06 days
6490   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
6492   Time Step No. = 1222 Elapsed Time = 2.167752E+06 days
6493   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
6495   Time Step No. = 1223 Elapsed Time = 2.169752E+06 days
6496   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
6498   Time Step No. = 1224 Elapsed Time = 2.171752E+06 days
6499   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
6501   Time Step No. = 1225 Elapsed Time = 2.173752E+06 days
6502   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
6504   Time Step No. = 1226 Elapsed Time = 2.175752E+06 days
6505   Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
6507   Time Step No. = 1227 Elapsed Time = 2.177752E+06 days
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6508    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
6510    Time Step No. = 1228 Elapsed Time = 2.179752E+06 days
6511    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6513    Time Step No. = 1229 Elapsed Time = 2.181752E+06 days
6514    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6516    Time Step No. = 1230 Elapsed Time = 2.183752E+06 days
6517    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6519    Time Step No. = 1231 Elapsed Time = 2.185752E+06 days
6520    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6522    Time Step No. = 1232 Elapsed Time = 2.187752E+06 days
6523    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6525    Time Step No. = 1233 Elapsed Time = 2.189752E+06 days
6526    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
6528    Time Step No. = 1234 Elapsed Time = 2.191752E+06 days
6529    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
6531    Time Step No. = 1235 Elapsed Time = 2.193752E+06 days
6532    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
6534    Time Step No. = 1236 Elapsed Time = 2.195752E+06 days
6535    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
6537    Time Step No. = 1237 Elapsed Time = 2.197752E+06 days
6538    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
6540    Time Step No. = 1238 Elapsed Time = 2.199752E+06 days
6541    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
6543    Time Step No. = 1239 Elapsed Time = 2.201752E+06 days
6544    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
6546    Time Step No. = 1240 Elapsed Time = 2.203752E+06 days
6547    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
6549    Time Step No. = 1241 Elapsed Time = 2.205752E+06 days
6550    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
6552    Time Step No. = 1242 Elapsed Time = 2.207752E+06 days
6553    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
6555    Time Step No. = 1243 Elapsed Time = 2.209752E+06 days
6556    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
6558    Time Step No. = 1244 Elapsed Time = 2.211752E+06 days
6559    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
6561    Time Step No. = 1245 Elapsed Time = 2.213752E+06 days
6562    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
6564    Time Step No. = 1246 Elapsed Time = 2.215752E+06 days
6565    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
6567    Time Step No. = 1247 Elapsed Time = 2.217752E+06 days
6568    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
6570    Time Step No. = 1248 Elapsed Time = 2.219752E+06 days
6571    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
6573    Time Step No. = 1249 Elapsed Time = 2.221752E+06 days
6574    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
6576    Time Step No. = 1250 Elapsed Time = 2.223752E+06 days
6577    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
6579    Time Step No. = 1251 Elapsed Time = 2.225752E+06 days
6580    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
6582    Time Step No. = 1252 Elapsed Time = 2.227752E+06 days
6583    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
6585    Time Step No. = 1253 Elapsed Time = 2.229752E+06 days
6586    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
6588    Time Step No. = 1254 Elapsed Time = 2.231752E+06 days
6589    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
6591    Time Step No. = 1255 Elapsed Time = 2.233752E+06 days
6592    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
6594    Time Step No. = 1256 Elapsed Time = 2.235752E+06 days
6595    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
6597    Time Step No. = 1257 Elapsed Time = 2.237752E+06 days
6598    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
6600    Time Step No. = 1258 Elapsed Time = 2.239752E+06 days
6601    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
6603    Time Step No. = 1259 Elapsed Time = 2.241752E+06 days
6604    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
6606    Time Step No. = 1260 Elapsed Time = 2.243752E+06 days
6607    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
6609    Time Step No. = 1261 Elapsed Time = 2.245752E+06 days
6610    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
6612    Time Step No. = 1262 Elapsed Time = 2.247752E+06 days
6613    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
6615    Time Step No. = 1263 Elapsed Time = 2.249752E+06 days
6616    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
6618    Time Step No. = 1264 Elapsed Time = 2.251752E+06 days
6619    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
6621    Time Step No. = 1265 Elapsed Time = 2.253752E+06 days
```

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6622	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
6624	Time Step No. = 1266 Elapsed Time = 2.255752E+06 days
6625	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
6627	Time Step No. = 1267 Elapsed Time = 2.257752E+06 days
6628	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
6630	Time Step No. = 1268 Elapsed Time = 2.259752E+06 days
6631	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
6633	Time Step No. = 1269 Elapsed Time = 2.261752E+06 days
6634	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
6636	Time Step No. = 1270 Elapsed Time = 2.263752E+06 days
6637	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
6639	Time Step No. = 1271 Elapsed Time = 2.265752E+06 days
6640	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6642	Time Step No. = 1272 Elapsed Time = 2.267752E+06 days
6643	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6645	Time Step No. = 1273 Elapsed Time = 2.269752E+06 days
6646	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6648	Time Step No. = 1274 Elapsed Time = 2.271752E+06 days
6649	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6651	Time Step No. = 1275 Elapsed Time = 2.273752E+06 days
6652	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6654	Time Step No. = 1276 Elapsed Time = 2.275752E+06 days
6655	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6657	Time Step No. = 1277 Elapsed Time = 2.277752E+06 days
6658	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6660	Time Step No. = 1278 Elapsed Time = 2.279752E+06 days
6661	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6663	Time Step No. = 1279 Elapsed Time = 2.281752E+06 days
6664	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
6666	Time Step No. = 1280 Elapsed Time = 2.283752E+06 days
6667	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
6669	Time Step No. = 1281 Elapsed Time = 2.285752E+06 days
6670	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
6672	Time Step No. = 1282 Elapsed Time = 2.287752E+06 days
6673	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
6675	Time Step No. = 1283 Elapsed Time = 2.289752E+06 days
6676	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
6678	Time Step No. = 1284 Elapsed Time = 2.291752E+06 days
6679	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
6681	Time Step No. = 1285 Elapsed Time = 2.293752E+06 days
6682	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
6684	Time Step No. = 1286 Elapsed Time = 2.295752E+06 days
6685	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
6687	Time Step No. = 1287 Elapsed Time = 2.297752E+06 days
6688	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
6690	Time Step No. = 1288 Elapsed Time = 2.299752E+06 days
6691	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
6693	Time Step No. = 1289 Elapsed Time = 2.301752E+06 days
6694	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
6696	Time Step No. = 1290 Elapsed Time = 2.303752E+06 days
6697	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
6699	Time Step No. = 1291 Elapsed Time = 2.305752E+06 days
6700	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
6702	Time Step No. = 1292 Elapsed Time = 2.307752E+06 days
6703	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
6705	Time Step No. = 1293 Elapsed Time = 2.309752E+06 days
6706	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
6708	Time Step No. = 1294 Elapsed Time = 2.311752E+06 days
6709	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
6711	Time Step No. = 1295 Elapsed Time = 2.313752E+06 days
6712	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
6714	Time Step No. = 1296 Elapsed Time = 2.315752E+06 days
6715	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
6717	Time Step No. = 1297 Elapsed Time = 2.317752E+06 days
6718	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
6720	Time Step No. = 1298 Elapsed Time = 2.319752E+06 days
6721	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
6723	Time Step No. = 1299 Elapsed Time = 2.321752E+06 days
6724	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
6726	Time Step No. = 1300 Elapsed Time = 2.323752E+06 days
6727	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
6729	Time Step No. = 1301 Elapsed Time = 2.325752E+06 days
6730	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
6732	Time Step No. = 1302 Elapsed Time = 2.327752E+06 days
6733	Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
6735	Time Step No. = 1303 Elapsed Time = 2.329752E+06 days
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6736     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6738     Time Step No. = 1304 Elapsed Time = 2.331752E+06 days
6739     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6741     Time Step No. = 1305 Elapsed Time = 2.333752E+06 days
6742     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6744     Time Step No. = 1306 Elapsed Time = 2.335752E+06 days
6745     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6747     Time Step No. = 1307 Elapsed Time = 2.337752E+06 days
6748     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6750     Time Step No. = 1308 Elapsed Time = 2.339752E+06 days
6751     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
6753     Time Step No. = 1309 Elapsed Time = 2.341752E+06 days
6754     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
6756     Time Step No. = 1310 Elapsed Time = 2.343752E+06 days
6757     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
6759     Time Step No. = 1311 Elapsed Time = 2.345752E+06 days
6760     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
6762     Time Step No. = 1312 Elapsed Time = 2.347752E+06 days
6763     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
6765     Time Step No. = 1313 Elapsed Time = 2.349752E+06 days
6766     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
6768     Time Step No. = 1314 Elapsed Time = 2.351752E+06 days
6769     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
6771     Time Step No. = 1315 Elapsed Time = 2.353752E+06 days
6772     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
6774     Time Step No. = 1316 Elapsed Time = 2.355752E+06 days
6775     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
6777     Time Step No. = 1317 Elapsed Time = 2.357752E+06 days
6778     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
6780     Time Step No. = 1318 Elapsed Time = 2.359752E+06 days
6781     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6783     Time Step No. = 1319 Elapsed Time = 2.361752E+06 days
6784     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6786     Time Step No. = 1320 Elapsed Time = 2.363752E+06 days
6787     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6789     Time Step No. = 1321 Elapsed Time = 2.365752E+06 days
6790     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6792     Time Step No. = 1322 Elapsed Time = 2.367752E+06 days
6793     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6795     Time Step No. = 1323 Elapsed Time = 2.369752E+06 days
6796     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6798     Time Step No. = 1324 Elapsed Time = 2.371752E+06 days
6799     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6801     Time Step No. = 1325 Elapsed Time = 2.373752E+06 days
6802     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
6804     Time Step No. = 1326 Elapsed Time = 2.375752E+06 days
6805     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
6807     Time Step No. = 1327 Elapsed Time = 2.377752E+06 days
6808     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
6810     Time Step No. = 1328 Elapsed Time = 2.379752E+06 days
6811     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
6813     Time Step No. = 1329 Elapsed Time = 2.381752E+06 days
6814     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
6816     Time Step No. = 1330 Elapsed Time = 2.383752E+06 days
6817     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
6819     Time Step No. = 1331 Elapsed Time = 2.385752E+06 days
6820     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
6822     Time Step No. = 1332 Elapsed Time = 2.387752E+06 days
6823     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
6825     Time Step No. = 1333 Elapsed Time = 2.389752E+06 days
6826     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
6828     Time Step No. = 1334 Elapsed Time = 2.391752E+06 days
6829     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
6831     Time Step No. = 1335 Elapsed Time = 2.393752E+06 days
6832     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
6834     Time Step No. = 1336 Elapsed Time = 2.395752E+06 days
6835     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
6837     Time Step No. = 1337 Elapsed Time = 2.397752E+06 days
6838     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
6840     Time Step No. = 1338 Elapsed Time = 2.399752E+06 days
6841     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
6843     Time Step No. = 1339 Elapsed Time = 2.401752E+06 days
6844     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
6846     Time Step No. = 1340 Elapsed Time = 2.403752E+06 days
6847     Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
6849     Time Step No. = 1341 Elapsed Time = 2.405752E+06 days
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6850  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
6852  Time Step No. = 1342 Elapsed Time = 2.407752E+06 days
6853  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
6855  Time Step No. = 1343 Elapsed Time = 2.409752E+06 days
6856  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
6858  Time Step No. = 1344 Elapsed Time = 2.411752E+06 days
6859  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
6861  Time Step No. = 1345 Elapsed Time = 2.413752E+06 days
6862  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
6864  Time Step No. = 1346 Elapsed Time = 2.415752E+06 days
6865  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
6867  Time Step No. = 1347 Elapsed Time = 2.417752E+06 days
6868  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
6870  Time Step No. = 1348 Elapsed Time = 2.419752E+06 days
6871  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
6873  Time Step No. = 1349 Elapsed Time = 2.421752E+06 days
6874  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
6876  Time Step No. = 1350 Elapsed Time = 2.423752E+06 days
6877  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
6879  Time Step No. = 1351 Elapsed Time = 2.425752E+06 days
6880  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
6882  Time Step No. = 1352 Elapsed Time = 2.427752E+06 days
6883  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
6885  Time Step No. = 1353 Elapsed Time = 2.429752E+06 days
6886  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
6888  Time Step No. = 1354 Elapsed Time = 2.431752E+06 days
6889  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
6891  Time Step No. = 1355 Elapsed Time = 2.433752E+06 days
6892  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
6894  Time Step No. = 1356 Elapsed Time = 2.435752E+06 days
6895  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
6897  Time Step No. = 1357 Elapsed Time = 2.437752E+06 days
6898  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
6900  Time Step No. = 1358 Elapsed Time = 2.439752E+06 days
6901  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
6903  Time Step No. = 1359 Elapsed Time = 2.441752E+06 days
6904  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
6906  Time Step No. = 1360 Elapsed Time = 2.443752E+06 days
6907  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
6909  Time Step No. = 1361 Elapsed Time = 2.445752E+06 days
6910  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
6912  Time Step No. = 1362 Elapsed Time = 2.447752E+06 days
6913  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
6915  Time Step No. = 1363 Elapsed Time = 2.449752E+06 days
6916  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
6918  Time Step No. = 1364 Elapsed Time = 2.451752E+06 days
6919  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
6921  Time Step No. = 1365 Elapsed Time = 2.453752E+06 days
6922  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
6924  Time Step No. = 1366 Elapsed Time = 2.455752E+06 days
6925  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
6927  Time Step No. = 1367 Elapsed Time = 2.457752E+06 days
6928  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
6930  Time Step No. = 1368 Elapsed Time = 2.459752E+06 days
6931  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
6933  Time Step No. = 1369 Elapsed Time = 2.461752E+06 days
6934  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
6936  Time Step No. = 1370 Elapsed Time = 2.463752E+06 days
6937  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
6939  Time Step No. = 1371 Elapsed Time = 2.465752E+06 days
6940  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
6942  Time Step No. = 1372 Elapsed Time = 2.467752E+06 days
6943  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
6945  Time Step No. = 1373 Elapsed Time = 2.469752E+06 days
6946  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
6948  Time Step No. = 1374 Elapsed Time = 2.471752E+06 days
6949  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
6951  Time Step No. = 1375 Elapsed Time = 2.473752E+06 days
6952  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
6954  Time Step No. = 1376 Elapsed Time = 2.475752E+06 days
6955  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
6957  Time Step No. = 1377 Elapsed Time = 2.477752E+06 days
6958  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
6960  Time Step No. = 1378 Elapsed Time = 2.479752E+06 days
6961  Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6963  Time Step No. = 1379 Elapsed Time = 2.481752E+06 days
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6964    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6966    Time Step No. = 1380 Elapsed Time = 2.483752E+06 days
6967    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6969    Time Step No. = 1381 Elapsed Time = 2.485752E+06 days
6970    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6972    Time Step No. = 1382 Elapsed Time = 2.487752E+06 days
6973    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6975    Time Step No. = 1383 Elapsed Time = 2.489752E+06 days
6976    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6978    Time Step No. = 1384 Elapsed Time = 2.491752E+06 days
6979    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6981    Time Step No. = 1385 Elapsed Time = 2.493752E+06 days
6982    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6984    Time Step No. = 1386 Elapsed Time = 2.495752E+06 days
6985    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
6987    Time Step No. = 1387 Elapsed Time = 2.497752E+06 days
6988    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.32 ( 3.32 sec) Binary
6990    Time Step No. = 1388 Elapsed Time = 2.499752E+06 days
6991    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.32 ( 3.32 sec) Binary
6993    Time Step No. = 1389 Elapsed Time = 2.501752E+06 days
6994    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.32 ( 3.32 sec) Binary
6996    Time Step No. = 1390 Elapsed Time = 2.503752E+06 days
6997    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.32 ( 3.32 sec) Binary
6999    Time Step No. = 1391 Elapsed Time = 2.505752E+06 days
7000    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.32 ( 3.32 sec) Binary
7002    Time Step No. = 1392 Elapsed Time = 2.507752E+06 days
7003    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.33 ( 3.33 sec) Binary
7005    Time Step No. = 1393 Elapsed Time = 2.509752E+06 days
7006    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.33 ( 3.33 sec) Binary
7008    Time Step No. = 1394 Elapsed Time = 2.511752E+06 days
7009    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.33 ( 3.33 sec) Binary
7011    Time Step No. = 1395 Elapsed Time = 2.513752E+06 days
7012    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.33 ( 3.33 sec) Binary
7014    Time Step No. = 1396 Elapsed Time = 2.515752E+06 days
7015    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.34 ( 3.34 sec) Binary
7017    Time Step No. = 1397 Elapsed Time = 2.517752E+06 days
7018    Date: 02/15/07 Time: 12:57:58 CPU Time: 0 0: 0: 3.34 ( 3.34 sec) Binary
7020    Time Step No. = 1398 Elapsed Time = 2.519752E+06 days
7021    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.34 ( 3.34 sec) Binary
7023    Time Step No. = 1399 Elapsed Time = 2.521752E+06 days
7024    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.34 ( 3.34 sec) Binary
7026    Time Step No. = 1400 Elapsed Time = 2.523752E+06 days
7027    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.34 ( 3.34 sec) Binary
7029    Time Step No. = 1401 Elapsed Time = 2.525752E+06 days
7030    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.35 ( 3.35 sec) Binary
7032    Time Step No. = 1402 Elapsed Time = 2.527752E+06 days
7033    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.35 ( 3.35 sec) Binary
7035    Time Step No. = 1403 Elapsed Time = 2.529752E+06 days
7036    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.35 ( 3.35 sec) Binary
7038    Time Step No. = 1404 Elapsed Time = 2.531752E+06 days
7039    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.35 ( 3.35 sec) Binary
7041    Time Step No. = 1405 Elapsed Time = 2.533752E+06 days
7042    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.35 ( 3.35 sec) Binary
7044    Time Step No. = 1406 Elapsed Time = 2.535752E+06 days
7045    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.36 ( 3.36 sec) Binary
7047    Time Step No. = 1407 Elapsed Time = 2.537752E+06 days
7048    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.36 ( 3.36 sec) Binary
7050    Time Step No. = 1408 Elapsed Time = 2.539752E+06 days
7051    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.36 ( 3.36 sec) Binary
7053    Time Step No. = 1409 Elapsed Time = 2.541752E+06 days
7054    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.36 ( 3.36 sec) Binary
7056    Time Step No. = 1410 Elapsed Time = 2.543752E+06 days
7057    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.37 ( 3.37 sec) Binary
7059    Time Step No. = 1411 Elapsed Time = 2.545752E+06 days
7060    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.37 ( 3.37 sec) Binary
7062    Time Step No. = 1412 Elapsed Time = 2.547752E+06 days
7063    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.37 ( 3.37 sec) Binary
7065    Time Step No. = 1413 Elapsed Time = 2.549752E+06 days
7066    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.37 ( 3.37 sec) Binary
7068    Time Step No. = 1414 Elapsed Time = 2.551752E+06 days
7069    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7071    Time Step No. = 1415 Elapsed Time = 2.553752E+06 days
7072    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7074    Time Step No. = 1416 Elapsed Time = 2.555752E+06 days
7075    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7077    Time Step No. = 1417 Elapsed Time = 2.557752E+06 days
```

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7078    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7080    Time Step No. = 1418 Elapsed Time = 2.559752E+06 days
7081    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7083    Time Step No. = 1419 Elapsed Time = 2.561752E+06 days
7084    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.38 ( 3.38 sec) Binary
7086    Time Step No. = 1420 Elapsed Time = 2.563752E+06 days
7087    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.39 ( 3.39 sec) Binary
7089    Time Step No. = 1421 Elapsed Time = 2.565752E+06 days
7090    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.39 ( 3.39 sec) Binary
7092    Time Step No. = 1422 Elapsed Time = 2.567752E+06 days
7093    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.39 ( 3.39 sec) Binary
7095    Time Step No. = 1423 Elapsed Time = 2.569752E+06 days
7096    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.39 ( 3.39 sec) Binary
7098    Time Step No. = 1424 Elapsed Time = 2.571752E+06 days
7099    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
7101    Time Step No. = 1425 Elapsed Time = 2.573752E+06 days
7102    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
7104    Time Step No. = 1426 Elapsed Time = 2.575752E+06 days
7105    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
7107    Time Step No. = 1427 Elapsed Time = 2.577752E+06 days
7108    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
7110    Time Step No. = 1428 Elapsed Time = 2.579752E+06 days
7111    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.40 ( 3.40 sec) Binary
7113    Time Step No. = 1429 Elapsed Time = 2.581752E+06 days
7114    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.41 ( 3.41 sec) Binary
7116    Time Step No. = 1430 Elapsed Time = 2.583752E+06 days
7117    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.41 ( 3.41 sec) Binary
7119    Time Step No. = 1431 Elapsed Time = 2.585752E+06 days
7120    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.41 ( 3.41 sec) Binary
7122    Time Step No. = 1432 Elapsed Time = 2.587752E+06 days
7123    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.41 ( 3.41 sec) Binary
7125    Time Step No. = 1433 Elapsed Time = 2.589752E+06 days
7126    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.42 ( 3.42 sec) Binary
7128    Time Step No. = 1434 Elapsed Time = 2.591752E+06 days
7129    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.42 ( 3.42 sec) Binary
7131    Time Step No. = 1435 Elapsed Time = 2.593752E+06 days
7132    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.42 ( 3.42 sec) Binary
7134    Time Step No. = 1436 Elapsed Time = 2.595752E+06 days
7135    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.42 ( 3.42 sec) Binary
7137    Time Step No. = 1437 Elapsed Time = 2.597752E+06 days
7138    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.43 ( 3.43 sec) Binary
7140    Time Step No. = 1438 Elapsed Time = 2.599752E+06 days
7141    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.43 ( 3.43 sec) Binary
7143    Time Step No. = 1439 Elapsed Time = 2.601752E+06 days
7144    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.43 ( 3.43 sec) Binary
7146    Time Step No. = 1440 Elapsed Time = 2.603752E+06 days
7147    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.43 ( 3.43 sec) Binary
7149    Time Step No. = 1441 Elapsed Time = 2.605752E+06 days
7150    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.43 ( 3.43 sec) Binary
7152    Time Step No. = 1442 Elapsed Time = 2.607752E+06 days
7153    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.44 ( 3.44 sec) Binary
7155    Time Step No. = 1443 Elapsed Time = 2.609752E+06 days
7156    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.44 ( 3.44 sec) Binary
7158    Time Step No. = 1444 Elapsed Time = 2.611752E+06 days
7159    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.44 ( 3.44 sec) Binary
7161    Time Step No. = 1445 Elapsed Time = 2.613752E+06 days
7162    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.44 ( 3.44 sec) Binary
7164    Time Step No. = 1446 Elapsed Time = 2.615752E+06 days
7165    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.44 ( 3.44 sec) Binary
7167    Time Step No. = 1447 Elapsed Time = 2.617752E+06 days
7168    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.45 ( 3.45 sec) Binary
7170    Time Step No. = 1448 Elapsed Time = 2.619752E+06 days
7171    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.45 ( 3.45 sec) Binary
7173    Time Step No. = 1449 Elapsed Time = 2.621752E+06 days
7174    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.45 ( 3.45 sec) Binary
7176    Time Step No. = 1450 Elapsed Time = 2.623752E+06 days
7177    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.45 ( 3.45 sec) Binary
7179    Time Step No. = 1451 Elapsed Time = 2.625752E+06 days
7180    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.46 ( 3.46 sec) Binary
7182    Time Step No. = 1452 Elapsed Time = 2.627752E+06 days
7183    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.46 ( 3.46 sec) Binary
7185    Time Step No. = 1453 Elapsed Time = 2.629752E+06 days
7186    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.46 ( 3.46 sec) Binary
7188    Time Step No. = 1454 Elapsed Time = 2.631752E+06 days
7189    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.46 ( 3.46 sec) Binary
7191    Time Step No. = 1455 Elapsed Time = 2.633752E+06 days
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7192    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.46 ( 3.46 sec) Binary
7194    Time Step No. = 1456 Elapsed Time = 2.635752E+06 days
7195    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.47 ( 3.47 sec) Binary
7197    Time Step No. = 1457 Elapsed Time = 2.637752E+06 days
7198    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.47 ( 3.47 sec) Binary
7200    Time Step No. = 1458 Elapsed Time = 2.639752E+06 days
7201    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.47 ( 3.47 sec) Binary
7203    Time Step No. = 1459 Elapsed Time = 2.641752E+06 days
7204    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.47 ( 3.47 sec) Binary
7206    Time Step No. = 1460 Elapsed Time = 2.643752E+06 days
7207    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.48 ( 3.48 sec) Binary
7209    Time Step No. = 1461 Elapsed Time = 2.645752E+06 days
7210    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.48 ( 3.48 sec) Binary
7212    Time Step No. = 1462 Elapsed Time = 2.647752E+06 days
7213    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.48 ( 3.48 sec) Binary
7215    Time Step No. = 1463 Elapsed Time = 2.649752E+06 days
7216    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.48 ( 3.48 sec) Binary
7218    Time Step No. = 1464 Elapsed Time = 2.651752E+06 days
7219    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.48 ( 3.48 sec) Binary
7221    Time Step No. = 1465 Elapsed Time = 2.653752E+06 days
7222    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.49 ( 3.49 sec) Binary
7224    Time Step No. = 1466 Elapsed Time = 2.655752E+06 days
7225    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.49 ( 3.49 sec) Binary
7227    Time Step No. = 1467 Elapsed Time = 2.657752E+06 days
7228    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.49 ( 3.49 sec) Binary
7230    Time Step No. = 1468 Elapsed Time = 2.659752E+06 days
7231    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.49 ( 3.49 sec) Binary
7233    Time Step No. = 1469 Elapsed Time = 2.661752E+06 days
7234    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.49 ( 3.49 sec) Binary
7236    Time Step No. = 1470 Elapsed Time = 2.663752E+06 days
7237    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.50 ( 3.50 sec) Binary
7239    Time Step No. = 1471 Elapsed Time = 2.665752E+06 days
7240    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.50 ( 3.50 sec) Binary
7242    Time Step No. = 1472 Elapsed Time = 2.667752E+06 days
7243    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.50 ( 3.50 sec) Binary
7245    Time Step No. = 1473 Elapsed Time = 2.669752E+06 days
7246    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.50 ( 3.50 sec) Binary
7248    Time Step No. = 1474 Elapsed Time = 2.671752E+06 days
7249    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.50 ( 3.50 sec) Binary
7251    Time Step No. = 1475 Elapsed Time = 2.673752E+06 days
7252    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.51 ( 3.51 sec) Binary
7254    Time Step No. = 1476 Elapsed Time = 2.675752E+06 days
7255    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.51 ( 3.51 sec) Binary
7257    Time Step No. = 1477 Elapsed Time = 2.677752E+06 days
7258    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.51 ( 3.51 sec) Binary
7260    Time Step No. = 1478 Elapsed Time = 2.679752E+06 days
7261    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7263    Time Step No. = 1479 Elapsed Time = 2.681752E+06 days
7264    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7266    Time Step No. = 1480 Elapsed Time = 2.683752E+06 days
7267    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7269    Time Step No. = 1481 Elapsed Time = 2.685752E+06 days
7270    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7272    Time Step No. = 1482 Elapsed Time = 2.687752E+06 days
7273    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7275    Time Step No. = 1483 Elapsed Time = 2.689752E+06 days
7276    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.52 ( 3.52 sec) Binary
7278    Time Step No. = 1484 Elapsed Time = 2.691752E+06 days
7279    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.53 ( 3.53 sec) Binary
7281    Time Step No. = 1485 Elapsed Time = 2.693752E+06 days
7282    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.53 ( 3.53 sec) Binary
7284    Time Step No. = 1486 Elapsed Time = 2.695752E+06 days
7285    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.53 ( 3.53 sec) Binary
7287    Time Step No. = 1487 Elapsed Time = 2.697752E+06 days
7288    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.53 ( 3.53 sec) Binary
7290    Time Step No. = 1488 Elapsed Time = 2.699752E+06 days
7291    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.54 ( 3.54 sec) Binary
7293    Time Step No. = 1489 Elapsed Time = 2.701752E+06 days
7294    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.54 ( 3.54 sec) Binary
7296    Time Step No. = 1490 Elapsed Time = 2.703752E+06 days
7297    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.54 ( 3.54 sec) Binary
7299    Time Step No. = 1491 Elapsed Time = 2.705752E+06 days
7300    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.54 ( 3.54 sec) Binary
7302    Time Step No. = 1492 Elapsed Time = 2.707752E+06 days
7303    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.55 ( 3.55 sec) Binary
7305    Time Step No. = 1493 Elapsed Time = 2.709752E+06 days
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7306    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.55 ( 3.55 sec) Binary
7308    Time Step No. = 1494 Elapsed Time = 2.711752E+06 days
7309    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.55 ( 3.55 sec) Binary
7311    Time Step No. = 1495 Elapsed Time = 2.713752E+06 days
7312    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.55 ( 3.55 sec) Binary
7314    Time Step No. = 1496 Elapsed Time = 2.715752E+06 days
7315    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.56 ( 3.56 sec) Binary
7317    Time Step No. = 1497 Elapsed Time = 2.717752E+06 days
7318    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.56 ( 3.56 sec) Binary
7320    Time Step No. = 1498 Elapsed Time = 2.719752E+06 days
7321    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.56 ( 3.56 sec) Binary
7323    Time Step No. = 1499 Elapsed Time = 2.721752E+06 days
7324    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.56 ( 3.56 sec) Binary
7326    Time Step No. = 1500 Elapsed Time = 2.723752E+06 days
7327    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.56 ( 3.56 sec) Binary
7329    Time Step No. = 1501 Elapsed Time = 2.725752E+06 days
7330    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.57 ( 3.57 sec) Binary
7332    Time Step No. = 1502 Elapsed Time = 2.727752E+06 days
7333    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.57 ( 3.57 sec) Binary
7335    Time Step No. = 1503 Elapsed Time = 2.729752E+06 days
7336    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.57 ( 3.57 sec) Binary
7338    Time Step No. = 1504 Elapsed Time = 2.731752E+06 days
7339    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.57 ( 3.57 sec) Binary
7341    Time Step No. = 1505 Elapsed Time = 2.733752E+06 days
7342    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.58 ( 3.58 sec) Binary
7344    Time Step No. = 1506 Elapsed Time = 2.735752E+06 days
7345    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.58 ( 3.58 sec) Binary
7347    Time Step No. = 1507 Elapsed Time = 2.737752E+06 days
7348    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.58 ( 3.58 sec) Binary
7350    Time Step No. = 1508 Elapsed Time = 2.739752E+06 days
7351    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.58 ( 3.58 sec) Binary
7353    Time Step No. = 1509 Elapsed Time = 2.741752E+06 days
7354    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.58 ( 3.58 sec) Binary
7356    Time Step No. = 1510 Elapsed Time = 2.743752E+06 days
7357    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.59 ( 3.59 sec) Binary
7359    Time Step No. = 1511 Elapsed Time = 2.745752E+06 days
7360    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.59 ( 3.59 sec) Binary
7362    Time Step No. = 1512 Elapsed Time = 2.747752E+06 days
7363    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.59 ( 3.59 sec) Binary
7365    Time Step No. = 1513 Elapsed Time = 2.749752E+06 days
7366    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.59 ( 3.59 sec) Binary
7368    Time Step No. = 1514 Elapsed Time = 2.751752E+06 days
7369    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.60 ( 3.60 sec) Binary
7371    Time Step No. = 1515 Elapsed Time = 2.753752E+06 days
7372    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.60 ( 3.60 sec) Binary
7374    Time Step No. = 1516 Elapsed Time = 2.755752E+06 days
7375    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.60 ( 3.60 sec) Binary
7377    Time Step No. = 1517 Elapsed Time = 2.757752E+06 days
7378    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.60 ( 3.60 sec) Binary
7380    Time Step No. = 1518 Elapsed Time = 2.759752E+06 days
7381    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.60 ( 3.60 sec) Binary
7383    Time Step No. = 1519 Elapsed Time = 2.761752E+06 days
7384    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.61 ( 3.61 sec) Binary
7386    Time Step No. = 1520 Elapsed Time = 2.763752E+06 days
7387    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.61 ( 3.61 sec) Binary
7389    Time Step No. = 1521 Elapsed Time = 2.765752E+06 days
7390    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.61 ( 3.61 sec) Binary
7392    Time Step No. = 1522 Elapsed Time = 2.767752E+06 days
7393    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.61 ( 3.61 sec) Binary
7395    Time Step No. = 1523 Elapsed Time = 2.769752E+06 days
7396    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.61 ( 3.61 sec) Binary
7398    Time Step No. = 1524 Elapsed Time = 2.771752E+06 days
7399    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.62 ( 3.62 sec) Binary
7401    Time Step No. = 1525 Elapsed Time = 2.773752E+06 days
7402    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.62 ( 3.62 sec) Binary
7404    Time Step No. = 1526 Elapsed Time = 2.775752E+06 days
7405    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.62 ( 3.62 sec) Binary
7407    Time Step No. = 1527 Elapsed Time = 2.777752E+06 days
7408    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.62 ( 3.62 sec) Binary
7410    Time Step No. = 1528 Elapsed Time = 2.779752E+06 days
7411    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.62 ( 3.62 sec) Binary
7413    Time Step No. = 1529 Elapsed Time = 2.781752E+06 days
7414    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.63 ( 3.63 sec) Binary
7416    Time Step No. = 1530 Elapsed Time = 2.783752E+06 days
7417    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.63 ( 3.63 sec) Binary
7419    Time Step No. = 1531 Elapsed Time = 2.785752E+06 days
```

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7420    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.63 ( 3.63 sec) Binary
7422    Time Step No. = 1532 Elapsed Time = 2.787752E+06 days
7423    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.63 ( 3.63 sec) Binary
7425    Time Step No. = 1533 Elapsed Time = 2.789752E+06 days
7426    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.64 ( 3.64 sec) Binary
7428    Time Step No. = 1534 Elapsed Time = 2.791752E+06 days
7429    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.64 ( 3.64 sec) Binary
7431    Time Step No. = 1535 Elapsed Time = 2.793752E+06 days
7432    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.64 ( 3.64 sec) Binary
7434    Time Step No. = 1536 Elapsed Time = 2.795752E+06 days
7435    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.64 ( 3.64 sec) Binary
7437    Time Step No. = 1537 Elapsed Time = 2.797752E+06 days
7438    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.64 ( 3.64 sec) Binary
7440    Time Step No. = 1538 Elapsed Time = 2.799752E+06 days
7441    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.65 ( 3.65 sec) Binary
7443    Time Step No. = 1539 Elapsed Time = 2.801752E+06 days
7444    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.65 ( 3.65 sec) Binary
7446    Time Step No. = 1540 Elapsed Time = 2.803752E+06 days
7447    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.65 ( 3.65 sec) Binary
7449    Time Step No. = 1541 Elapsed Time = 2.805752E+06 days
7450    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.65 ( 3.65 sec) Binary
7452    Time Step No. = 1542 Elapsed Time = 2.807752E+06 days
7453    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.66 ( 3.66 sec) Binary
7455    Time Step No. = 1543 Elapsed Time = 2.809752E+06 days
7456    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.66 ( 3.66 sec) Binary
7458    Time Step No. = 1544 Elapsed Time = 2.811752E+06 days
7459    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.66 ( 3.66 sec) Binary
7461    Time Step No. = 1545 Elapsed Time = 2.813752E+06 days
7462    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.66 ( 3.66 sec) Binary
7464    Time Step No. = 1546 Elapsed Time = 2.815752E+06 days
7465    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7467    Time Step No. = 1547 Elapsed Time = 2.817752E+06 days
7468    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7470    Time Step No. = 1548 Elapsed Time = 2.819752E+06 days
7471    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7473    Time Step No. = 1549 Elapsed Time = 2.821752E+06 days
7474    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7476    Time Step No. = 1550 Elapsed Time = 2.823752E+06 days
7477    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7479    Time Step No. = 1551 Elapsed Time = 2.825752E+06 days
7480    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7482    Time Step No. = 1552 Elapsed Time = 2.827752E+06 days
7483    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7485    Time Step No. = 1553 Elapsed Time = 2.829752E+06 days
7486    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7488    Time Step No. = 1554 Elapsed Time = 2.831752E+06 days
7489    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7491    Time Step No. = 1555 Elapsed Time = 2.833752E+06 days
7492    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.67 ( 3.67 sec) Binary
7494    Time Step No. = 1556 Elapsed Time = 2.835752E+06 days
7495    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.68 ( 3.68 sec) Binary
7497    Time Step No. = 1557 Elapsed Time = 2.837752E+06 days
7498    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.68 ( 3.68 sec) Binary
7500    Time Step No. = 1558 Elapsed Time = 2.839752E+06 days
7501    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.68 ( 3.68 sec) Binary
7503    Time Step No. = 1559 Elapsed Time = 2.841752E+06 days
7504    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.68 ( 3.68 sec) Binary
7506    Time Step No. = 1560 Elapsed Time = 2.843752E+06 days
7507    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.69 ( 3.69 sec) Binary
7509    Time Step No. = 1561 Elapsed Time = 2.845752E+06 days
7510    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.69 ( 3.69 sec) Binary
7512    Time Step No. = 1562 Elapsed Time = 2.847752E+06 days
7513    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.69 ( 3.69 sec) Binary
7515    Time Step No. = 1563 Elapsed Time = 2.849752E+06 days
7516    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.70 ( 3.70 sec) Binary
7518    Time Step No. = 1564 Elapsed Time = 2.851752E+06 days
7519    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.70 ( 3.70 sec) Binary
7521    Time Step No. = 1565 Elapsed Time = 2.853752E+06 days
7522    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.70 ( 3.70 sec) Binary
7524    Time Step No. = 1566 Elapsed Time = 2.855752E+06 days
7525    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.70 ( 3.70 sec) Binary
7527    Time Step No. = 1567 Elapsed Time = 2.857752E+06 days
7528    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.70 ( 3.70 sec) Binary
7530    Time Step No. = 1568 Elapsed Time = 2.859752E+06 days
7531    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.71 ( 3.71 sec) Binary
7533    Time Step No. = 1569 Elapsed Time = 2.861752E+06 days
```

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7534    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.71 ( 3.71 sec) Binary
7536    Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
7537    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.71 ( 3.71 sec) Binary
7539    Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
7540    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7542    Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
7543    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7545    Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7548    Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7551    Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7554    Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.72 ( 3.72 sec) Binary
7557    Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 ( 3.73 sec) Binary
7560    Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 ( 3.73 sec) Binary
7563    Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 ( 3.73 sec) Binary
7566    Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.73 ( 3.73 sec) Binary
7569    Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 ( 3.74 sec) Binary
7572    Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 ( 3.74 sec) Binary
7575    Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 ( 3.74 sec) Binary
7578    Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.74 ( 3.74 sec) Binary
7581    Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
7584    Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
7587    Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
7590    Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.75 ( 3.75 sec) Binary
7593    Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7596    Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7599    Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7602    Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7605    Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7608    Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.76 ( 3.76 sec) Binary
7611    Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 ( 3.77 sec) Binary
7614    Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 ( 3.77 sec) Binary
7617    Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 ( 3.77 sec) Binary
7620    Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 ( 3.77 sec) Binary
7623    Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.77 ( 3.77 sec) Binary
7627   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4882    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) ASCII
4884    Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4887    Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4890    Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4893    Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4896    Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4899    Time Step No. = 691 Elapsed Time = 1.105752E+06 days
```

```
4900   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4902   Time Step No. = 692 Elapsed Time = 1.107752E+06 days
4903   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4905   Time Step No. = 693 Elapsed Time = 1.109752E+06 days
4906   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4908   Time Step No. = 694 Elapsed Time = 1.111752E+06 days
4909   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4911   Time Step No. = 695 Elapsed Time = 1.113752E+06 days
4912   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4914   Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4917   Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4920   Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4923   Time Step No. = 699 Elapsed Time = 1.121752E+06 days
4924   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4926   Time Step No. = 700 Elapsed Time = 1.123752E+06 days
4927   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4929   Time Step No. = 701 Elapsed Time = 1.125752E+06 days
4930   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4932   Time Step No. = 702 Elapsed Time = 1.127752E+06 days
4933   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4935   Time Step No. = 703 Elapsed Time = 1.129752E+06 days
4936   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4938   Time Step No. = 704 Elapsed Time = 1.131752E+06 days
4939   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4941   Time Step No. = 705 Elapsed Time = 1.133752E+06 days
4942   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4944   Time Step No. = 706 Elapsed Time = 1.135752E+06 days
4945   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4947   Time Step No. = 707 Elapsed Time = 1.137752E+06 days
4948   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4950   Time Step No. = 708 Elapsed Time = 1.139752E+06 days
4951   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4953   Time Step No. = 709 Elapsed Time = 1.141752E+06 days
4954   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4956   Time Step No. = 710 Elapsed Time = 1.143752E+06 days
4957   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4959   Time Step No. = 711 Elapsed Time = 1.145752E+06 days
4960   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4962   Time Step No. = 712 Elapsed Time = 1.147752E+06 days
4963   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4965   Time Step No. = 713 Elapsed Time = 1.149752E+06 days
4966   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4968   Time Step No. = 714 Elapsed Time = 1.151752E+06 days
4969   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4971   Time Step No. = 715 Elapsed Time = 1.153752E+06 days
4972   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4974   Time Step No. = 716 Elapsed Time = 1.155752E+06 days
4975   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4977   Time Step No. = 717 Elapsed Time = 1.157752E+06 days
4978   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4980   Time Step No. = 718 Elapsed Time = 1.159752E+06 days
4981   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4983   Time Step No. = 719 Elapsed Time = 1.161752E+06 days
4984   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4986   Time Step No. = 720 Elapsed Time = 1.163752E+06 days
4987   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4989   Time Step No. = 721 Elapsed Time = 1.165752E+06 days
4990   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4992   Time Step No. = 722 Elapsed Time = 1.167752E+06 days
4993   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4995   Time Step No. = 723 Elapsed Time = 1.169752E+06 days
4996   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4998   Time Step No. = 724 Elapsed Time = 1.171752E+06 days
4999   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5001   Time Step No. = 725 Elapsed Time = 1.173752E+06 days
5002   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5004   Time Step No. = 726 Elapsed Time = 1.175752E+06 days
5005   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5007   Time Step No. = 727 Elapsed Time = 1.177752E+06 days
5008   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5010   Time Step No. = 728 Elapsed Time = 1.179752E+06 days
5011   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5013   Time Step No. = 729 Elapsed Time = 1.181752E+06 days
```

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5014    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5016    Time Step No. = 730 Elapsed Time = 1.183752E+06 days
5017    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5019    Time Step No. = 731 Elapsed Time = 1.185752E+06 days
5020    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5022    Time Step No. = 732 Elapsed Time = 1.187752E+06 days
5023    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5025    Time Step No. = 733 Elapsed Time = 1.189752E+06 days
5026    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5028    Time Step No. = 734 Elapsed Time = 1.191752E+06 days
5029    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5031    Time Step No. = 735 Elapsed Time = 1.193752E+06 days
5032    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5034    Time Step No. = 736 Elapsed Time = 1.195752E+06 days
5035    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5037    Time Step No. = 737 Elapsed Time = 1.197752E+06 days
5038    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5040    Time Step No. = 738 Elapsed Time = 1.199752E+06 days
5041    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5043    Time Step No. = 739 Elapsed Time = 1.201752E+06 days
5044    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5046    Time Step No. = 740 Elapsed Time = 1.203752E+06 days
5047    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5049    Time Step No. = 741 Elapsed Time = 1.205752E+06 days
5050    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5052    Time Step No. = 742 Elapsed Time = 1.207752E+06 days
5053    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5055    Time Step No. = 743 Elapsed Time = 1.209752E+06 days
5056    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5058    Time Step No. = 744 Elapsed Time = 1.211752E+06 days
5059    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5061    Time Step No. = 745 Elapsed Time = 1.213752E+06 days
5062    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5064    Time Step No. = 746 Elapsed Time = 1.215752E+06 days
5065    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5067    Time Step No. = 747 Elapsed Time = 1.217752E+06 days
5068    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5070    Time Step No. = 748 Elapsed Time = 1.219752E+06 days
5071    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5073    Time Step No. = 749 Elapsed Time = 1.221752E+06 days
5074    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5076    Time Step No. = 750 Elapsed Time = 1.223752E+06 days
5077    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5079    Time Step No. = 751 Elapsed Time = 1.225752E+06 days
5080    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5082    Time Step No. = 752 Elapsed Time = 1.227752E+06 days
5083    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5085    Time Step No. = 753 Elapsed Time = 1.229752E+06 days
5086    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5088    Time Step No. = 754 Elapsed Time = 1.231752E+06 days
5089    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5091    Time Step No. = 755 Elapsed Time = 1.233752E+06 days
5092    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5094    Time Step No. = 756 Elapsed Time = 1.235752E+06 days
5095    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5097    Time Step No. = 757 Elapsed Time = 1.237752E+06 days
5098    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5100    Time Step No. = 758 Elapsed Time = 1.239752E+06 days
5101    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5103    Time Step No. = 759 Elapsed Time = 1.241752E+06 days
5104    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5106    Time Step No. = 760 Elapsed Time = 1.243752E+06 days
5107    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5109    Time Step No. = 761 Elapsed Time = 1.245752E+06 days
5110    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5112    Time Step No. = 762 Elapsed Time = 1.247752E+06 days
5113    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5115    Time Step No. = 763 Elapsed Time = 1.249752E+06 days
5116    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5118    Time Step No. = 764 Elapsed Time = 1.251752E+06 days
5119    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5121    Time Step No. = 765 Elapsed Time = 1.253752E+06 days
5122    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5124    Time Step No. = 766 Elapsed Time = 1.255752E+06 days
5125    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5127    Time Step No. = 767 Elapsed Time = 1.257752E+06 days
```

```
5128 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5130 Time Step No. = 768 Elapsed Time = 1.259752E+06 days
5131 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5133 Time Step No. = 769 Elapsed Time = 1.261752E+06 days
5134 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5136 Time Step No. = 770 Elapsed Time = 1.263752E+06 days
5137 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5139 Time Step No. = 771 Elapsed Time = 1.265752E+06 days
5140 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5142 Time Step No. = 772 Elapsed Time = 1.267752E+06 days
5143 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5145 Time Step No. = 773 Elapsed Time = 1.269752E+06 days
5146 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5148 Time Step No. = 774 Elapsed Time = 1.271752E+06 days
5149 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5151 Time Step No. = 775 Elapsed Time = 1.273752E+06 days
5152 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5154 Time Step No. = 776 Elapsed Time = 1.275752E+06 days
5155 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5157 Time Step No. = 777 Elapsed Time = 1.277752E+06 days
5158 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5160 Time Step No. = 778 Elapsed Time = 1.279752E+06 days
5161 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5163 Time Step No. = 779 Elapsed Time = 1.281752E+06 days
5164 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5166 Time Step No. = 780 Elapsed Time = 1.283752E+06 days
5167 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5169 Time Step No. = 781 Elapsed Time = 1.285752E+06 days
5170 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5172 Time Step No. = 782 Elapsed Time = 1.287752E+06 days
5173 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5175 Time Step No. = 783 Elapsed Time = 1.289752E+06 days
5176 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5178 Time Step No. = 784 Elapsed Time = 1.291752E+06 days
5179 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5181 Time Step No. = 785 Elapsed Time = 1.293752E+06 days
5182 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5184 Time Step No. = 786 Elapsed Time = 1.295752E+06 days
5185 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5187 Time Step No. = 787 Elapsed Time = 1.297752E+06 days
5188 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5190 Time Step No. = 788 Elapsed Time = 1.299752E+06 days
5191 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5193 Time Step No. = 789 Elapsed Time = 1.301752E+06 days
5194 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5196 Time Step No. = 790 Elapsed Time = 1.303752E+06 days
5197 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5199 Time Step No. = 791 Elapsed Time = 1.305752E+06 days
5200 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5202 Time Step No. = 792 Elapsed Time = 1.307752E+06 days
5203 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5205 Time Step No. = 793 Elapsed Time = 1.309752E+06 days
5206 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5208 Time Step No. = 794 Elapsed Time = 1.311752E+06 days
5209 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5211 Time Step No. = 795 Elapsed Time = 1.313752E+06 days
5212 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5214 Time Step No. = 796 Elapsed Time = 1.315752E+06 days
5215 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5217 Time Step No. = 797 Elapsed Time = 1.317752E+06 days
5218 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5220 Time Step No. = 798 Elapsed Time = 1.319752E+06 days
5221 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5223 Time Step No. = 799 Elapsed Time = 1.321752E+06 days
5224 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5226 Time Step No. = 800 Elapsed Time = 1.323752E+06 days
5227 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5229 Time Step No. = 801 Elapsed Time = 1.325752E+06 days
5230 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5232 Time Step No. = 802 Elapsed Time = 1.327752E+06 days
5233 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5235 Time Step No. = 803 Elapsed Time = 1.329752E+06 days
5236 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5238 Time Step No. = 804 Elapsed Time = 1.331752E+06 days
5239 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5241 Time Step No. = 805 Elapsed Time = 1.333752E+06 days
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5242    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5244    Time Step No. = 806 Elapsed Time = 1.335752E+06 days
5245    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5247    Time Step No. = 807 Elapsed Time = 1.337752E+06 days
5248    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5250    Time Step No. = 808 Elapsed Time = 1.339752E+06 days
5251    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5253    Time Step No. = 809 Elapsed Time = 1.341752E+06 days
5254    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5256    Time Step No. = 810 Elapsed Time = 1.343752E+06 days
5257    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5259    Time Step No. = 811 Elapsed Time = 1.345752E+06 days
5260    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5262    Time Step No. = 812 Elapsed Time = 1.347752E+06 days
5263    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5265    Time Step No. = 813 Elapsed Time = 1.349752E+06 days
5266    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5268    Time Step No. = 814 Elapsed Time = 1.351752E+06 days
5269    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5271    Time Step No. = 815 Elapsed Time = 1.353752E+06 days
5272    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5274    Time Step No. = 816 Elapsed Time = 1.355752E+06 days
5275    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5277    Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5280    Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5283    Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5286    Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5289    Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5292    Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5295    Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5298    Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5301    Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5304    Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5307    Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5310    Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5313    Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5316    Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5319    Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5322    Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5325    Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5328    Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5331    Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5334    Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5337    Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5340    Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5343    Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5346    Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5349    Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5352    Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5355    Time Step No. = 843 Elapsed Time = 1.409752E+06 days
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```
5356    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5358    Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5361    Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5364    Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5367    Time Step No. = 847 Elapsed Time = 1.417752E+06 days
5368    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5370    Time Step No. = 848 Elapsed Time = 1.419752E+06 days
5371    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5373    Time Step No. = 849 Elapsed Time = 1.421752E+06 days
5374    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5376    Time Step No. = 850 Elapsed Time = 1.423752E+06 days
5377    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5379    Time Step No. = 851 Elapsed Time = 1.425752E+06 days
5380    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5382    Time Step No. = 852 Elapsed Time = 1.427752E+06 days
5383    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5385    Time Step No. = 853 Elapsed Time = 1.429752E+06 days
5386    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5388    Time Step No. = 854 Elapsed Time = 1.431752E+06 days
5389    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5391    Time Step No. = 855 Elapsed Time = 1.433752E+06 days
5392    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5394    Time Step No. = 856 Elapsed Time = 1.435752E+06 days
5395    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5397    Time Step No. = 857 Elapsed Time = 1.437752E+06 days
5398    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5400    Time Step No. = 858 Elapsed Time = 1.439752E+06 days
5401    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5403    Time Step No. = 859 Elapsed Time = 1.441752E+06 days
5404    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5406    Time Step No. = 860 Elapsed Time = 1.443752E+06 days
5407    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5409    Time Step No. = 861 Elapsed Time = 1.445752E+06 days
5410    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5412    Time Step No. = 862 Elapsed Time = 1.447752E+06 days
5413    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5415    Time Step No. = 863 Elapsed Time = 1.449752E+06 days
5416    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5418    Time Step No. = 864 Elapsed Time = 1.451752E+06 days
5419    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5421    Time Step No. = 865 Elapsed Time = 1.453752E+06 days
5422    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5424    Time Step No. = 866 Elapsed Time = 1.455752E+06 days
5425    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5427    Time Step No. = 867 Elapsed Time = 1.457752E+06 days
5428    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5430    Time Step No. = 868 Elapsed Time = 1.459752E+06 days
5431    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5433    Time Step No. = 869 Elapsed Time = 1.461752E+06 days
5434    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5436    Time Step No. = 870 Elapsed Time = 1.463752E+06 days
5437    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5439    Time Step No. = 871 Elapsed Time = 1.465752E+06 days
5440    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5442    Time Step No. = 872 Elapsed Time = 1.467752E+06 days
5443    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5445    Time Step No. = 873 Elapsed Time = 1.469752E+06 days
5446    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5448    Time Step No. = 874 Elapsed Time = 1.471752E+06 days
5449    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5451    Time Step No. = 875 Elapsed Time = 1.473752E+06 days
5452    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5454    Time Step No. = 876 Elapsed Time = 1.475752E+06 days
5455    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5457    Time Step No. = 877 Elapsed Time = 1.477752E+06 days
5458    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5460    Time Step No. = 878 Elapsed Time = 1.479752E+06 days
5461    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5463    Time Step No. = 879 Elapsed Time = 1.481752E+06 days
5464    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5466    Time Step No. = 880 Elapsed Time = 1.483752E+06 days
5467    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5469    Time Step No. = 881 Elapsed Time = 1.485752E+06 days
```

```
5470    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5472    Time Step No. = 882 Elapsed Time = 1.487752E+06 days
5473    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5475    Time Step No. = 883 Elapsed Time = 1.489752E+06 days
5476    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5478    Time Step No. = 884 Elapsed Time = 1.491752E+06 days
5479    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5481    Time Step No. = 885 Elapsed Time = 1.493752E+06 days
5482    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5484    Time Step No. = 886 Elapsed Time = 1.495752E+06 days
5485    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5487    Time Step No. = 887 Elapsed Time = 1.497752E+06 days
5488    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5490    Time Step No. = 888 Elapsed Time = 1.499752E+06 days
5491    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5493    Time Step No. = 889 Elapsed Time = 1.501752E+06 days
5494    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5496    Time Step No. = 890 Elapsed Time = 1.503752E+06 days
5497    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5499    Time Step No. = 891 Elapsed Time = 1.505752E+06 days
5500    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5502    Time Step No. = 892 Elapsed Time = 1.507752E+06 days
5503    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5505    Time Step No. = 893 Elapsed Time = 1.509752E+06 days
5506    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5508    Time Step No. = 894 Elapsed Time = 1.511752E+06 days
5509    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5511    Time Step No. = 895 Elapsed Time = 1.513752E+06 days
5512    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5514    Time Step No. = 896 Elapsed Time = 1.515752E+06 days
5515    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5517    Time Step No. = 897 Elapsed Time = 1.517752E+06 days
5518    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5520    Time Step No. = 898 Elapsed Time = 1.519752E+06 days
5521    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5523    Time Step No. = 899 Elapsed Time = 1.521752E+06 days
5524    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5526    Time Step No. = 900 Elapsed Time = 1.523752E+06 days
5527    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5529    Time Step No. = 901 Elapsed Time = 1.525752E+06 days
5530    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5532    Time Step No. = 902 Elapsed Time = 1.527752E+06 days
5533    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5535    Time Step No. = 903 Elapsed Time = 1.529752E+06 days
5536    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5538    Time Step No. = 904 Elapsed Time = 1.531752E+06 days
5539    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5541    Time Step No. = 905 Elapsed Time = 1.533752E+06 days
5542    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5544    Time Step No. = 906 Elapsed Time = 1.535752E+06 days
5545    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5547    Time Step No. = 907 Elapsed Time = 1.537752E+06 days
5548    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5550    Time Step No. = 908 Elapsed Time = 1.539752E+06 days
5551    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5553    Time Step No. = 909 Elapsed Time = 1.541752E+06 days
5554    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5556    Time Step No. = 910 Elapsed Time = 1.543752E+06 days
5557    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5559    Time Step No. = 911 Elapsed Time = 1.545752E+06 days
5560    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5562    Time Step No. = 912 Elapsed Time = 1.547752E+06 days
5563    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5565    Time Step No. = 913 Elapsed Time = 1.549752E+06 days
5566    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5568    Time Step No. = 914 Elapsed Time = 1.551752E+06 days
5569    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5571    Time Step No. = 915 Elapsed Time = 1.553752E+06 days
5572    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5574    Time Step No. = 916 Elapsed Time = 1.555752E+06 days
5575    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5577    Time Step No. = 917 Elapsed Time = 1.557752E+06 days
5578    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5580    Time Step No. = 918 Elapsed Time = 1.559752E+06 days
5581    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5583    Time Step No. = 919 Elapsed Time = 1.561752E+06 days
```

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5584    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5586    Time Step No. = 920 Elapsed Time = 1.563752E+06 days
5587    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5589    Time Step No. = 921 Elapsed Time = 1.565752E+06 days
5590    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5592    Time Step No. = 922 Elapsed Time = 1.567752E+06 days
5593    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5595    Time Step No. = 923 Elapsed Time = 1.569752E+06 days
5596    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5598    Time Step No. = 924 Elapsed Time = 1.571752E+06 days
5599    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5601    Time Step No. = 925 Elapsed Time = 1.573752E+06 days
5602    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5604    Time Step No. = 926 Elapsed Time = 1.575752E+06 days
5605    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5607    Time Step No. = 927 Elapsed Time = 1.577752E+06 days
5608    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5610    Time Step No. = 928 Elapsed Time = 1.579752E+06 days
5611    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5613    Time Step No. = 929 Elapsed Time = 1.581752E+06 days
5614    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5616    Time Step No. = 930 Elapsed Time = 1.583752E+06 days
5617    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5619    Time Step No. = 931 Elapsed Time = 1.585752E+06 days
5620    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5622    Time Step No. = 932 Elapsed Time = 1.587752E+06 days
5623    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5625    Time Step No. = 933 Elapsed Time = 1.589752E+06 days
5626    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5628    Time Step No. = 934 Elapsed Time = 1.591752E+06 days
5629    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5631    Time Step No. = 935 Elapsed Time = 1.593752E+06 days
5632    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5634    Time Step No. = 936 Elapsed Time = 1.595752E+06 days
5635    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5637    Time Step No. = 937 Elapsed Time = 1.597752E+06 days
5638    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5640    Time Step No. = 938 Elapsed Time = 1.599752E+06 days
5641    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5643    Time Step No. = 939 Elapsed Time = 1.601752E+06 days
5644    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5646    Time Step No. = 940 Elapsed Time = 1.603752E+06 days
5647    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5649    Time Step No. = 941 Elapsed Time = 1.605752E+06 days
5650    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5652    Time Step No. = 942 Elapsed Time = 1.607752E+06 days
5653    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5655    Time Step No. = 943 Elapsed Time = 1.609752E+06 days
5656    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5658    Time Step No. = 944 Elapsed Time = 1.611752E+06 days
5659    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5661    Time Step No. = 945 Elapsed Time = 1.613752E+06 days
5662    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5664    Time Step No. = 946 Elapsed Time = 1.615752E+06 days
5665    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5667    Time Step No. = 947 Elapsed Time = 1.617752E+06 days
5668    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5670    Time Step No. = 948 Elapsed Time = 1.619752E+06 days
5671    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5673    Time Step No. = 949 Elapsed Time = 1.621752E+06 days
5674    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5676    Time Step No. = 950 Elapsed Time = 1.623752E+06 days
5677    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5679    Time Step No. = 951 Elapsed Time = 1.625752E+06 days
5680    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5682    Time Step No. = 952 Elapsed Time = 1.627752E+06 days
5683    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5685    Time Step No. = 953 Elapsed Time = 1.629752E+06 days
5686    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5688    Time Step No. = 954 Elapsed Time = 1.631752E+06 days
5689    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5691    Time Step No. = 955 Elapsed Time = 1.633752E+06 days
5692    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5694    Time Step No. = 956 Elapsed Time = 1.635752E+06 days
5695    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5697    Time Step No. = 957 Elapsed Time = 1.637752E+06 days
```

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5698  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5700  Time Step No. = 958 Elapsed Time = 1.639752E+06 days
5701  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5703  Time Step No. = 959 Elapsed Time = 1.641752E+06 days
5704  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5706  Time Step No. = 960 Elapsed Time = 1.643752E+06 days
5707  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5709  Time Step No. = 961 Elapsed Time = 1.645752E+06 days
5710  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5712  Time Step No. = 962 Elapsed Time = 1.647752E+06 days
5713  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5715  Time Step No. = 963 Elapsed Time = 1.649752E+06 days
5716  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5718  Time Step No. = 964 Elapsed Time = 1.651752E+06 days
5719  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5721  Time Step No. = 965 Elapsed Time = 1.653752E+06 days
5722  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5724  Time Step No. = 966 Elapsed Time = 1.655752E+06 days
5725  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5727  Time Step No. = 967 Elapsed Time = 1.657752E+06 days
5728  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5730  Time Step No. = 968 Elapsed Time = 1.659752E+06 days
5731  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5733  Time Step No. = 969 Elapsed Time = 1.661752E+06 days
5734  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5736  Time Step No. = 970 Elapsed Time = 1.663752E+06 days
5737  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5739  Time Step No. = 971 Elapsed Time = 1.665752E+06 days
5740  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5742  Time Step No. = 972 Elapsed Time = 1.667752E+06 days
5743  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5745  Time Step No. = 973 Elapsed Time = 1.669752E+06 days
5746  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5748  Time Step No. = 974 Elapsed Time = 1.671752E+06 days
5749  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5751  Time Step No. = 975 Elapsed Time = 1.673752E+06 days
5752  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5754  Time Step No. = 976 Elapsed Time = 1.675752E+06 days
5755  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5757  Time Step No. = 977 Elapsed Time = 1.677752E+06 days
5758  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5760  Time Step No. = 978 Elapsed Time = 1.679752E+06 days
5761  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5763  Time Step No. = 979 Elapsed Time = 1.681752E+06 days
5764  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5766  Time Step No. = 980 Elapsed Time = 1.683752E+06 days
5767  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5769  Time Step No. = 981 Elapsed Time = 1.685752E+06 days
5770  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5772  Time Step No. = 982 Elapsed Time = 1.687752E+06 days
5773  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5775  Time Step No. = 983 Elapsed Time = 1.689752E+06 days
5776  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5778  Time Step No. = 984 Elapsed Time = 1.691752E+06 days
5779  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5781  Time Step No. = 985 Elapsed Time = 1.693752E+06 days
5782  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5784  Time Step No. = 986 Elapsed Time = 1.695752E+06 days
5785  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5787  Time Step No. = 987 Elapsed Time = 1.697752E+06 days
5788  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5790  Time Step No. = 988 Elapsed Time = 1.699752E+06 days
5791  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5793  Time Step No. = 989 Elapsed Time = 1.701752E+06 days
5794  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5796  Time Step No. = 990 Elapsed Time = 1.703752E+06 days
5797  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5799  Time Step No. = 991 Elapsed Time = 1.705752E+06 days
5800  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5802  Time Step No. = 992 Elapsed Time = 1.707752E+06 days
5803  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5805  Time Step No. = 993 Elapsed Time = 1.709752E+06 days
5806  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5808  Time Step No. = 994 Elapsed Time = 1.711752E+06 days
5809  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5811  Time Step No. = 995 Elapsed Time = 1.713752E+06 days
```

```
5812 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5814 Time Step No. = 996 Elapsed Time = 1.715752E+06 days
5815 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5817 Time Step No. = 997 Elapsed Time = 1.717752E+06 days
5818 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5820 Time Step No. = 998 Elapsed Time = 1.719752E+06 days
5821 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5823 Time Step No. = 999 Elapsed Time = 1.721752E+06 days
5824 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5826 Time Step No. = 1000 Elapsed Time = 1.723752E+06 days
5827 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5829 Time Step No. = 1001 Elapsed Time = 1.725752E+06 days
5830 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5832 Time Step No. = 1002 Elapsed Time = 1.727752E+06 days
5833 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5835 Time Step No. = 1003 Elapsed Time = 1.729752E+06 days
5836 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5838 Time Step No. = 1004 Elapsed Time = 1.731752E+06 days
5839 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5841 Time Step No. = 1005 Elapsed Time = 1.733752E+06 days
5842 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5844 Time Step No. = 1006 Elapsed Time = 1.735752E+06 days
5845 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5847 Time Step No. = 1007 Elapsed Time = 1.737752E+06 days
5848 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5850 Time Step No. = 1008 Elapsed Time = 1.739752E+06 days
5851 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5853 Time Step No. = 1009 Elapsed Time = 1.741752E+06 days
5854 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5856 Time Step No. = 1010 Elapsed Time = 1.743752E+06 days
5857 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5859 Time Step No. = 1011 Elapsed Time = 1.745752E+06 days
5860 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5862 Time Step No. = 1012 Elapsed Time = 1.747752E+06 days
5863 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5865 Time Step No. = 1013 Elapsed Time = 1.749752E+06 days
5866 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5868 Time Step No. = 1014 Elapsed Time = 1.751752E+06 days
5869 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5871 Time Step No. = 1015 Elapsed Time = 1.753752E+06 days
5872 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5874 Time Step No. = 1016 Elapsed Time = 1.755752E+06 days
5875 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5877 Time Step No. = 1017 Elapsed Time = 1.757752E+06 days
5878 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5880 Time Step No. = 1018 Elapsed Time = 1.759752E+06 days
5881 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5883 Time Step No. = 1019 Elapsed Time = 1.761752E+06 days
5884 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5886 Time Step No. = 1020 Elapsed Time = 1.763752E+06 days
5887 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5889 Time Step No. = 1021 Elapsed Time = 1.765752E+06 days
5890 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5892 Time Step No. = 1022 Elapsed Time = 1.767752E+06 days
5893 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5895 Time Step No. = 1023 Elapsed Time = 1.769752E+06 days
5896 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5898 Time Step No. = 1024 Elapsed Time = 1.771752E+06 days
5899 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5901 Time Step No. = 1025 Elapsed Time = 1.773752E+06 days
5902 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5904 Time Step No. = 1026 Elapsed Time = 1.775752E+06 days
5905 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5907 Time Step No. = 1027 Elapsed Time = 1.777752E+06 days
5908 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5910 Time Step No. = 1028 Elapsed Time = 1.779752E+06 days
5911 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5913 Time Step No. = 1029 Elapsed Time = 1.781752E+06 days
5914 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5916 Time Step No. = 1030 Elapsed Time = 1.783752E+06 days
5917 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5919 Time Step No. = 1031 Elapsed Time = 1.785752E+06 days
5920 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5922 Time Step No. = 1032 Elapsed Time = 1.787752E+06 days
5923 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5925 Time Step No. = 1033 Elapsed Time = 1.789752E+06 days
```

```
5926    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5928    Time Step No. = 1034 Elapsed Time = 1.791752E+06 days
5929    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5931    Time Step No. = 1035 Elapsed Time = 1.793752E+06 days
5932    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5934    Time Step No. = 1036 Elapsed Time = 1.795752E+06 days
5935    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5937    Time Step No. = 1037 Elapsed Time = 1.797752E+06 days
5938    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5940    Time Step No. = 1038 Elapsed Time = 1.799752E+06 days
5941    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5943    Time Step No. = 1039 Elapsed Time = 1.801752E+06 days
5944    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5946    Time Step No. = 1040 Elapsed Time = 1.803752E+06 days
5947    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5949    Time Step No. = 1041 Elapsed Time = 1.805752E+06 days
5950    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5952    Time Step No. = 1042 Elapsed Time = 1.807752E+06 days
5953    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5955    Time Step No. = 1043 Elapsed Time = 1.809752E+06 days
5956    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5958    Time Step No. = 1044 Elapsed Time = 1.811752E+06 days
5959    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5961    Time Step No. = 1045 Elapsed Time = 1.813752E+06 days
5962    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5964    Time Step No. = 1046 Elapsed Time = 1.815752E+06 days
5965    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5967    Time Step No. = 1047 Elapsed Time = 1.817752E+06 days
5968    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5970    Time Step No. = 1048 Elapsed Time = 1.819752E+06 days
5971    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5973    Time Step No. = 1049 Elapsed Time = 1.821752E+06 days
5974    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5976    Time Step No. = 1050 Elapsed Time = 1.823752E+06 days
5977    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5979    Time Step No. = 1051 Elapsed Time = 1.825752E+06 days
5980    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5982    Time Step No. = 1052 Elapsed Time = 1.827752E+06 days
5983    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5985    Time Step No. = 1053 Elapsed Time = 1.829752E+06 days
5986    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5988    Time Step No. = 1054 Elapsed Time = 1.831752E+06 days
5989    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5991    Time Step No. = 1055 Elapsed Time = 1.833752E+06 days
5992    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5994    Time Step No. = 1056 Elapsed Time = 1.835752E+06 days
5995    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5997    Time Step No. = 1057 Elapsed Time = 1.837752E+06 days
5998    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6000    Time Step No. = 1058 Elapsed Time = 1.839752E+06 days
6001    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6003    Time Step No. = 1059 Elapsed Time = 1.841752E+06 days
6004    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6006    Time Step No. = 1060 Elapsed Time = 1.843752E+06 days
6007    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6009    Time Step No. = 1061 Elapsed Time = 1.845752E+06 days
6010    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6012    Time Step No. = 1062 Elapsed Time = 1.847752E+06 days
6013    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6015    Time Step No. = 1063 Elapsed Time = 1.849752E+06 days
6016    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6018    Time Step No. = 1064 Elapsed Time = 1.851752E+06 days
6019    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6021    Time Step No. = 1065 Elapsed Time = 1.853752E+06 days
6022    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6024    Time Step No. = 1066 Elapsed Time = 1.855752E+06 days
6025    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6027    Time Step No. = 1067 Elapsed Time = 1.857752E+06 days
6028    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6030    Time Step No. = 1068 Elapsed Time = 1.859752E+06 days
6031    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6033    Time Step No. = 1069 Elapsed Time = 1.861752E+06 days
6034    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6036    Time Step No. = 1070 Elapsed Time = 1.863752E+06 days
6037    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6039    Time Step No. = 1071 Elapsed Time = 1.865752E+06 days
```

```
6040    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6042    Time Step No. = 1072 Elapsed Time = 1.867752E+06 days
6043    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6045    Time Step No. = 1073 Elapsed Time = 1.869752E+06 days
6046    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6048    Time Step No. = 1074 Elapsed Time = 1.871752E+06 days
6049    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6051    Time Step No. = 1075 Elapsed Time = 1.873752E+06 days
6052    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6054    Time Step No. = 1076 Elapsed Time = 1.875752E+06 days
6055    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6057    Time Step No. = 1077 Elapsed Time = 1.877752E+06 days
6058    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6060    Time Step No. = 1078 Elapsed Time = 1.879752E+06 days
6061    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6063    Time Step No. = 1079 Elapsed Time = 1.881752E+06 days
6064    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6066    Time Step No. = 1080 Elapsed Time = 1.883752E+06 days
6067    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6069    Time Step No. = 1081 Elapsed Time = 1.885752E+06 days
6070    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6072    Time Step No. = 1082 Elapsed Time = 1.887752E+06 days
6073    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6075    Time Step No. = 1083 Elapsed Time = 1.889752E+06 days
6076    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6078    Time Step No. = 1084 Elapsed Time = 1.891752E+06 days
6079    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6081    Time Step No. = 1085 Elapsed Time = 1.893752E+06 days
6082    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6084    Time Step No. = 1086 Elapsed Time = 1.895752E+06 days
6085    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6087    Time Step No. = 1087 Elapsed Time = 1.897752E+06 days
6088    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6090    Time Step No. = 1088 Elapsed Time = 1.899752E+06 days
6091    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6093    Time Step No. = 1089 Elapsed Time = 1.901752E+06 days
6094    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6096    Time Step No. = 1090 Elapsed Time = 1.903752E+06 days
6097    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6099    Time Step No. = 1091 Elapsed Time = 1.905752E+06 days
6100    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6102    Time Step No. = 1092 Elapsed Time = 1.907752E+06 days
6103    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6105    Time Step No. = 1093 Elapsed Time = 1.909752E+06 days
6106    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6108    Time Step No. = 1094 Elapsed Time = 1.911752E+06 days
6109    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6111    Time Step No. = 1095 Elapsed Time = 1.913752E+06 days
6112    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6114    Time Step No. = 1096 Elapsed Time = 1.915752E+06 days
6115    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6117    Time Step No. = 1097 Elapsed Time = 1.917752E+06 days
6118    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6120    Time Step No. = 1098 Elapsed Time = 1.919752E+06 days
6121    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6123    Time Step No. = 1099 Elapsed Time = 1.921752E+06 days
6124    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6126    Time Step No. = 1100 Elapsed Time = 1.923752E+06 days
6127    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6129    Time Step No. = 1101 Elapsed Time = 1.925752E+06 days
6130    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6132    Time Step No. = 1102 Elapsed Time = 1.927752E+06 days
6133    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6135    Time Step No. = 1103 Elapsed Time = 1.929752E+06 days
6136    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6138    Time Step No. = 1104 Elapsed Time = 1.931752E+06 days
6139    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6141    Time Step No. = 1105 Elapsed Time = 1.933752E+06 days
6142    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6144    Time Step No. = 1106 Elapsed Time = 1.935752E+06 days
6145    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6147    Time Step No. = 1107 Elapsed Time = 1.937752E+06 days
6148    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6150    Time Step No. = 1108 Elapsed Time = 1.939752E+06 days
6151    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6153    Time Step No. = 1109 Elapsed Time = 1.941752E+06 days
```

```
6154  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6156  Time Step No. = 1110 Elapsed Time = 1.943752E+06 days
6157  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6159  Time Step No. = 1111 Elapsed Time = 1.945752E+06 days
6160  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6162  Time Step No. = 1112 Elapsed Time = 1.947752E+06 days
6163  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6165  Time Step No. = 1113 Elapsed Time = 1.949752E+06 days
6166  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6168  Time Step No. = 1114 Elapsed Time = 1.951752E+06 days
6169  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6171  Time Step No. = 1115 Elapsed Time = 1.953752E+06 days
6172  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6174  Time Step No. = 1116 Elapsed Time = 1.955752E+06 days
6175  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6177  Time Step No. = 1117 Elapsed Time = 1.957752E+06 days
6178  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6180  Time Step No. = 1118 Elapsed Time = 1.959752E+06 days
6181  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6183  Time Step No. = 1119 Elapsed Time = 1.961752E+06 days
6184  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6186  Time Step No. = 1120 Elapsed Time = 1.963752E+06 days
6187  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6189  Time Step No. = 1121 Elapsed Time = 1.965752E+06 days
6190  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6192  Time Step No. = 1122 Elapsed Time = 1.967752E+06 days
6193  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6195  Time Step No. = 1123 Elapsed Time = 1.969752E+06 days
6196  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6198  Time Step No. = 1124 Elapsed Time = 1.971752E+06 days
6199  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6201  Time Step No. = 1125 Elapsed Time = 1.973752E+06 days
6202  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6204  Time Step No. = 1126 Elapsed Time = 1.975752E+06 days
6205  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6207  Time Step No. = 1127 Elapsed Time = 1.977752E+06 days
6208  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6210  Time Step No. = 1128 Elapsed Time = 1.979752E+06 days
6211  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6213  Time Step No. = 1129 Elapsed Time = 1.981752E+06 days
6214  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6216  Time Step No. = 1130 Elapsed Time = 1.983752E+06 days
6217  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6219  Time Step No. = 1131 Elapsed Time = 1.985752E+06 days
6220  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6222  Time Step No. = 1132 Elapsed Time = 1.987752E+06 days
6223  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6225  Time Step No. = 1133 Elapsed Time = 1.989752E+06 days
6226  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6228  Time Step No. = 1134 Elapsed Time = 1.991752E+06 days
6229  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6231  Time Step No. = 1135 Elapsed Time = 1.993752E+06 days
6232  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6234  Time Step No. = 1136 Elapsed Time = 1.995752E+06 days
6235  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6237  Time Step No. = 1137 Elapsed Time = 1.997752E+06 days
6238  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6240  Time Step No. = 1138 Elapsed Time = 1.999752E+06 days
6241  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6243  Time Step No. = 1139 Elapsed Time = 2.001752E+06 days
6244  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6246  Time Step No. = 1140 Elapsed Time = 2.003752E+06 days
6247  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6249  Time Step No. = 1141 Elapsed Time = 2.005752E+06 days
6250  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6252  Time Step No. = 1142 Elapsed Time = 2.007752E+06 days
6253  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6255  Time Step No. = 1143 Elapsed Time = 2.009752E+06 days
6256  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6258  Time Step No. = 1144 Elapsed Time = 2.011752E+06 days
6259  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6261  Time Step No. = 1145 Elapsed Time = 2.013752E+06 days
6262  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6264  Time Step No. = 1146 Elapsed Time = 2.015752E+06 days
6265  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6267  Time Step No. = 1147 Elapsed Time = 2.017752E+06 days
```

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6268  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6270  Time Step No. = 1148 Elapsed Time = 2.019752E+06 days
6271  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6273  Time Step No. = 1149 Elapsed Time = 2.021752E+06 days
6274  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6276  Time Step No. = 1150 Elapsed Time = 2.023752E+06 days
6277  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6279  Time Step No. = 1151 Elapsed Time = 2.025752E+06 days
6280  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6282  Time Step No. = 1152 Elapsed Time = 2.027752E+06 days
6283  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6285  Time Step No. = 1153 Elapsed Time = 2.029752E+06 days
6286  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6288  Time Step No. = 1154 Elapsed Time = 2.031752E+06 days
6289  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6291  Time Step No. = 1155 Elapsed Time = 2.033752E+06 days
6292  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6294  Time Step No. = 1156 Elapsed Time = 2.035752E+06 days
6295  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6297  Time Step No. = 1157 Elapsed Time = 2.037752E+06 days
6298  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6300  Time Step No. = 1158 Elapsed Time = 2.039752E+06 days
6301  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6303  Time Step No. = 1159 Elapsed Time = 2.041752E+06 days
6304  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6306  Time Step No. = 1160 Elapsed Time = 2.043752E+06 days
6307  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6309  Time Step No. = 1161 Elapsed Time = 2.045752E+06 days
6310  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6312  Time Step No. = 1162 Elapsed Time = 2.047752E+06 days
6313  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6315  Time Step No. = 1163 Elapsed Time = 2.049752E+06 days
6316  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6318  Time Step No. = 1164 Elapsed Time = 2.051752E+06 days
6319  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6321  Time Step No. = 1165 Elapsed Time = 2.053752E+06 days
6322  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6324  Time Step No. = 1166 Elapsed Time = 2.055752E+06 days
6325  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6327  Time Step No. = 1167 Elapsed Time = 2.057752E+06 days
6328  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6330  Time Step No. = 1168 Elapsed Time = 2.059752E+06 days
6331  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6333  Time Step No. = 1169 Elapsed Time = 2.061752E+06 days
6334  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6336  Time Step No. = 1170 Elapsed Time = 2.063752E+06 days
6337  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6339  Time Step No. = 1171 Elapsed Time = 2.065752E+06 days
6340  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6342  Time Step No. = 1172 Elapsed Time = 2.067752E+06 days
6343  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6345  Time Step No. = 1173 Elapsed Time = 2.069752E+06 days
6346  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6348  Time Step No. = 1174 Elapsed Time = 2.071752E+06 days
6349  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6351  Time Step No. = 1175 Elapsed Time = 2.073752E+06 days
6352  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6354  Time Step No. = 1176 Elapsed Time = 2.075752E+06 days
6355  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6357  Time Step No. = 1177 Elapsed Time = 2.077752E+06 days
6358  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6360  Time Step No. = 1178 Elapsed Time = 2.079752E+06 days
6361  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6363  Time Step No. = 1179 Elapsed Time = 2.081752E+06 days
6364  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6366  Time Step No. = 1180 Elapsed Time = 2.083752E+06 days
6367  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6369  Time Step No. = 1181 Elapsed Time = 2.085752E+06 days
6370  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6372  Time Step No. = 1182 Elapsed Time = 2.087752E+06 days
6373  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6375  Time Step No. = 1183 Elapsed Time = 2.089752E+06 days
6376  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6378  Time Step No. = 1184 Elapsed Time = 2.091752E+06 days
6379  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6381  Time Step No. = 1185 Elapsed Time = 2.093752E+06 days
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6382    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6384    Time Step No. = 1186 Elapsed Time = 2.095752E+06 days
6385    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6387    Time Step No. = 1187 Elapsed Time = 2.097752E+06 days
6388    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6390    Time Step No. = 1188 Elapsed Time = 2.099752E+06 days
6391    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6393    Time Step No. = 1189 Elapsed Time = 2.101752E+06 days
6394    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6396    Time Step No. = 1190 Elapsed Time = 2.103752E+06 days
6397    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6399    Time Step No. = 1191 Elapsed Time = 2.105752E+06 days
6400    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6402    Time Step No. = 1192 Elapsed Time = 2.107752E+06 days
6403    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6405    Time Step No. = 1193 Elapsed Time = 2.109752E+06 days
6406    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6408    Time Step No. = 1194 Elapsed Time = 2.111752E+06 days
6409    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6411    Time Step No. = 1195 Elapsed Time = 2.113752E+06 days
6412    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6414    Time Step No. = 1196 Elapsed Time = 2.115752E+06 days
6415    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6417    Time Step No. = 1197 Elapsed Time = 2.117752E+06 days
6418    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6420    Time Step No. = 1198 Elapsed Time = 2.119752E+06 days
6421    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6423    Time Step No. = 1199 Elapsed Time = 2.121752E+06 days
6424    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6426    Time Step No. = 1200 Elapsed Time = 2.123752E+06 days
6427    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6429    Time Step No. = 1201 Elapsed Time = 2.125752E+06 days
6430    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6432    Time Step No. = 1202 Elapsed Time = 2.127752E+06 days
6433    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6435    Time Step No. = 1203 Elapsed Time = 2.129752E+06 days
6436    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6438    Time Step No. = 1204 Elapsed Time = 2.131752E+06 days
6439    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6441    Time Step No. = 1205 Elapsed Time = 2.133752E+06 days
6442    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6444    Time Step No. = 1206 Elapsed Time = 2.135752E+06 days
6445    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6447    Time Step No. = 1207 Elapsed Time = 2.137752E+06 days
6448    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6450    Time Step No. = 1208 Elapsed Time = 2.139752E+06 days
6451    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6453    Time Step No. = 1209 Elapsed Time = 2.141752E+06 days
6454    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6456    Time Step No. = 1210 Elapsed Time = 2.143752E+06 days
6457    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6459    Time Step No. = 1211 Elapsed Time = 2.145752E+06 days
6460    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6462    Time Step No. = 1212 Elapsed Time = 2.147752E+06 days
6463    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6465    Time Step No. = 1213 Elapsed Time = 2.149752E+06 days
6466    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6468    Time Step No. = 1214 Elapsed Time = 2.151752E+06 days
6469    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6471    Time Step No. = 1215 Elapsed Time = 2.153752E+06 days
6472    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6474    Time Step No. = 1216 Elapsed Time = 2.155752E+06 days
6475    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6477    Time Step No. = 1217 Elapsed Time = 2.157752E+06 days
6478    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6480    Time Step No. = 1218 Elapsed Time = 2.159752E+06 days
6481    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6483    Time Step No. = 1219 Elapsed Time = 2.161752E+06 days
6484    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6486    Time Step No. = 1220 Elapsed Time = 2.163752E+06 days
6487    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6489    Time Step No. = 1221 Elapsed Time = 2.165752E+06 days
6490    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6492    Time Step No. = 1222 Elapsed Time = 2.167752E+06 days
6493    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6495    Time Step No. = 1223 Elapsed Time = 2.169752E+06 days
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6496  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6498  Time Step No. = 1224 Elapsed Time = 2.171752E+06 days
6499  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6501  Time Step No. = 1225 Elapsed Time = 2.173752E+06 days
6502  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6504  Time Step No. = 1226 Elapsed Time = 2.175752E+06 days
6505  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6507  Time Step No. = 1227 Elapsed Time = 2.177752E+06 days
6508  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6510  Time Step No. = 1228 Elapsed Time = 2.179752E+06 days
6511  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6513  Time Step No. = 1229 Elapsed Time = 2.181752E+06 days
6514  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6516  Time Step No. = 1230 Elapsed Time = 2.183752E+06 days
6517  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6519  Time Step No. = 1231 Elapsed Time = 2.185752E+06 days
6520  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6522  Time Step No. = 1232 Elapsed Time = 2.187752E+06 days
6523  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6525  Time Step No. = 1233 Elapsed Time = 2.189752E+06 days
6526  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6528  Time Step No. = 1234 Elapsed Time = 2.191752E+06 days
6529  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6531  Time Step No. = 1235 Elapsed Time = 2.193752E+06 days
6532  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6534  Time Step No. = 1236 Elapsed Time = 2.195752E+06 days
6535  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6537  Time Step No. = 1237 Elapsed Time = 2.197752E+06 days
6538  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6540  Time Step No. = 1238 Elapsed Time = 2.199752E+06 days
6541  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6543  Time Step No. = 1239 Elapsed Time = 2.201752E+06 days
6544  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6546  Time Step No. = 1240 Elapsed Time = 2.203752E+06 days
6547  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6549  Time Step No. = 1241 Elapsed Time = 2.205752E+06 days
6550  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6552  Time Step No. = 1242 Elapsed Time = 2.207752E+06 days
6553  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6555  Time Step No. = 1243 Elapsed Time = 2.209752E+06 days
6556  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6558  Time Step No. = 1244 Elapsed Time = 2.211752E+06 days
6559  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6561  Time Step No. = 1245 Elapsed Time = 2.213752E+06 days
6562  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6564  Time Step No. = 1246 Elapsed Time = 2.215752E+06 days
6565  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6567  Time Step No. = 1247 Elapsed Time = 2.217752E+06 days
6568  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6570  Time Step No. = 1248 Elapsed Time = 2.219752E+06 days
6571  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6573  Time Step No. = 1249 Elapsed Time = 2.221752E+06 days
6574  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6576  Time Step No. = 1250 Elapsed Time = 2.223752E+06 days
6577  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6579  Time Step No. = 1251 Elapsed Time = 2.225752E+06 days
6580  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6582  Time Step No. = 1252 Elapsed Time = 2.227752E+06 days
6583  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6585  Time Step No. = 1253 Elapsed Time = 2.229752E+06 days
6586  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6588  Time Step No. = 1254 Elapsed Time = 2.231752E+06 days
6589  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6591  Time Step No. = 1255 Elapsed Time = 2.233752E+06 days
6592  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6594  Time Step No. = 1256 Elapsed Time = 2.235752E+06 days
6595  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6597  Time Step No. = 1257 Elapsed Time = 2.237752E+06 days
6598  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6600  Time Step No. = 1258 Elapsed Time = 2.239752E+06 days
6601  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6603  Time Step No. = 1259 Elapsed Time = 2.241752E+06 days
6604  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6606  Time Step No. = 1260 Elapsed Time = 2.243752E+06 days
6607  Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6609  Time Step No. = 1261 Elapsed Time = 2.245752E+06 days
```

```
6610    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6612    Time Step No. = 1262 Elapsed Time = 2.247752E+06 days
6613    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6615    Time Step No. = 1263 Elapsed Time = 2.249752E+06 days
6616    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6618    Time Step No. = 1264 Elapsed Time = 2.251752E+06 days
6619    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6621    Time Step No. = 1265 Elapsed Time = 2.253752E+06 days
6622    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6624    Time Step No. = 1266 Elapsed Time = 2.255752E+06 days
6625    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6627    Time Step No. = 1267 Elapsed Time = 2.257752E+06 days
6628    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6630    Time Step No. = 1268 Elapsed Time = 2.259752E+06 days
6631    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6633    Time Step No. = 1269 Elapsed Time = 2.261752E+06 days
6634    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6636    Time Step No. = 1270 Elapsed Time = 2.263752E+06 days
6637    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6639    Time Step No. = 1271 Elapsed Time = 2.265752E+06 days
6640    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6642    Time Step No. = 1272 Elapsed Time = 2.267752E+06 days
6643    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6645    Time Step No. = 1273 Elapsed Time = 2.269752E+06 days
6646    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6648    Time Step No. = 1274 Elapsed Time = 2.271752E+06 days
6649    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6651    Time Step No. = 1275 Elapsed Time = 2.273752E+06 days
6652    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6654    Time Step No. = 1276 Elapsed Time = 2.275752E+06 days
6655    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6657    Time Step No. = 1277 Elapsed Time = 2.277752E+06 days
6658    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6660    Time Step No. = 1278 Elapsed Time = 2.279752E+06 days
6661    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6663    Time Step No. = 1279 Elapsed Time = 2.281752E+06 days
6664    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6666    Time Step No. = 1280 Elapsed Time = 2.283752E+06 days
6667    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6669    Time Step No. = 1281 Elapsed Time = 2.285752E+06 days
6670    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6672    Time Step No. = 1282 Elapsed Time = 2.287752E+06 days
6673    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6675    Time Step No. = 1283 Elapsed Time = 2.289752E+06 days
6676    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6678    Time Step No. = 1284 Elapsed Time = 2.291752E+06 days
6679    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6681    Time Step No. = 1285 Elapsed Time = 2.293752E+06 days
6682    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6684    Time Step No. = 1286 Elapsed Time = 2.295752E+06 days
6685    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6687    Time Step No. = 1287 Elapsed Time = 2.297752E+06 days
6688    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6690    Time Step No. = 1288 Elapsed Time = 2.299752E+06 days
6691    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6693    Time Step No. = 1289 Elapsed Time = 2.301752E+06 days
6694    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6696    Time Step No. = 1290 Elapsed Time = 2.303752E+06 days
6697    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6699    Time Step No. = 1291 Elapsed Time = 2.305752E+06 days
6700    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6702    Time Step No. = 1292 Elapsed Time = 2.307752E+06 days
6703    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6705    Time Step No. = 1293 Elapsed Time = 2.309752E+06 days
6706    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6708    Time Step No. = 1294 Elapsed Time = 2.311752E+06 days
6709    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6711    Time Step No. = 1295 Elapsed Time = 2.313752E+06 days
6712    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6714    Time Step No. = 1296 Elapsed Time = 2.315752E+06 days
6715    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6717    Time Step No. = 1297 Elapsed Time = 2.317752E+06 days
6718    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6720    Time Step No. = 1298 Elapsed Time = 2.319752E+06 days
6721    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6723    Time Step No. = 1299 Elapsed Time = 2.321752E+06 days
```

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6724 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6726 Time Step No. = 1300 Elapsed Time = 2.323752E+06 days
6727 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6729 Time Step No. = 1301 Elapsed Time = 2.325752E+06 days
6730 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6732 Time Step No. = 1302 Elapsed Time = 2.327752E+06 days
6733 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6735 Time Step No. = 1303 Elapsed Time = 2.329752E+06 days
6736 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6738 Time Step No. = 1304 Elapsed Time = 2.331752E+06 days
6739 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6741 Time Step No. = 1305 Elapsed Time = 2.333752E+06 days
6742 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6744 Time Step No. = 1306 Elapsed Time = 2.335752E+06 days
6745 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6747 Time Step No. = 1307 Elapsed Time = 2.337752E+06 days
6748 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6750 Time Step No. = 1308 Elapsed Time = 2.339752E+06 days
6751 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6753 Time Step No. = 1309 Elapsed Time = 2.341752E+06 days
6754 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6756 Time Step No. = 1310 Elapsed Time = 2.343752E+06 days
6757 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6759 Time Step No. = 1311 Elapsed Time = 2.345752E+06 days
6760 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6762 Time Step No. = 1312 Elapsed Time = 2.347752E+06 days
6763 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6765 Time Step No. = 1313 Elapsed Time = 2.349752E+06 days
6766 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6768 Time Step No. = 1314 Elapsed Time = 2.351752E+06 days
6769 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6771 Time Step No. = 1315 Elapsed Time = 2.353752E+06 days
6772 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6774 Time Step No. = 1316 Elapsed Time = 2.355752E+06 days
6775 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6777 Time Step No. = 1317 Elapsed Time = 2.357752E+06 days
6778 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6780 Time Step No. = 1318 Elapsed Time = 2.359752E+06 days
6781 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6783 Time Step No. = 1319 Elapsed Time = 2.361752E+06 days
6784 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6786 Time Step No. = 1320 Elapsed Time = 2.363752E+06 days
6787 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6789 Time Step No. = 1321 Elapsed Time = 2.365752E+06 days
6790 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6792 Time Step No. = 1322 Elapsed Time = 2.367752E+06 days
6793 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6795 Time Step No. = 1323 Elapsed Time = 2.369752E+06 days
6796 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6798 Time Step No. = 1324 Elapsed Time = 2.371752E+06 days
6799 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6801 Time Step No. = 1325 Elapsed Time = 2.373752E+06 days
6802 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6804 Time Step No. = 1326 Elapsed Time = 2.375752E+06 days
6805 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6807 Time Step No. = 1327 Elapsed Time = 2.377752E+06 days
6808 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6810 Time Step No. = 1328 Elapsed Time = 2.379752E+06 days
6811 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6813 Time Step No. = 1329 Elapsed Time = 2.381752E+06 days
6814 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6816 Time Step No. = 1330 Elapsed Time = 2.383752E+06 days
6817 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6819 Time Step No. = 1331 Elapsed Time = 2.385752E+06 days
6820 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6822 Time Step No. = 1332 Elapsed Time = 2.387752E+06 days
6823 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6825 Time Step No. = 1333 Elapsed Time = 2.389752E+06 days
6826 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6828 Time Step No. = 1334 Elapsed Time = 2.391752E+06 days
6829 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6831 Time Step No. = 1335 Elapsed Time = 2.393752E+06 days
6832 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6834 Time Step No. = 1336 Elapsed Time = 2.395752E+06 days
6835 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6837 Time Step No. = 1337 Elapsed Time = 2.397752E+06 days
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6838    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6840    Time Step No. = 1338 Elapsed Time = 2.399752E+06 days
6841    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6843    Time Step No. = 1339 Elapsed Time = 2.401752E+06 days
6844    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6846    Time Step No. = 1340 Elapsed Time = 2.403752E+06 days
6847    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6849    Time Step No. = 1341 Elapsed Time = 2.405752E+06 days
6850    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6852    Time Step No. = 1342 Elapsed Time = 2.407752E+06 days
6853    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6855    Time Step No. = 1343 Elapsed Time = 2.409752E+06 days
6856    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6858    Time Step No. = 1344 Elapsed Time = 2.411752E+06 days
6859    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6861    Time Step No. = 1345 Elapsed Time = 2.413752E+06 days
6862    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6864    Time Step No. = 1346 Elapsed Time = 2.415752E+06 days
6865    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6867    Time Step No. = 1347 Elapsed Time = 2.417752E+06 days
6868    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6870    Time Step No. = 1348 Elapsed Time = 2.419752E+06 days
6871    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6873    Time Step No. = 1349 Elapsed Time = 2.421752E+06 days
6874    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6876    Time Step No. = 1350 Elapsed Time = 2.423752E+06 days
6877    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6879    Time Step No. = 1351 Elapsed Time = 2.425752E+06 days
6880    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6882    Time Step No. = 1352 Elapsed Time = 2.427752E+06 days
6883    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6885    Time Step No. = 1353 Elapsed Time = 2.429752E+06 days
6886    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6888    Time Step No. = 1354 Elapsed Time = 2.431752E+06 days
6889    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6891    Time Step No. = 1355 Elapsed Time = 2.433752E+06 days
6892    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6894    Time Step No. = 1356 Elapsed Time = 2.435752E+06 days
6895    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6897    Time Step No. = 1357 Elapsed Time = 2.437752E+06 days
6898    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6900    Time Step No. = 1358 Elapsed Time = 2.439752E+06 days
6901    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6903    Time Step No. = 1359 Elapsed Time = 2.441752E+06 days
6904    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6906    Time Step No. = 1360 Elapsed Time = 2.443752E+06 days
6907    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6909    Time Step No. = 1361 Elapsed Time = 2.445752E+06 days
6910    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6912    Time Step No. = 1362 Elapsed Time = 2.447752E+06 days
6913    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6915    Time Step No. = 1363 Elapsed Time = 2.449752E+06 days
6916    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6918    Time Step No. = 1364 Elapsed Time = 2.451752E+06 days
6919    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6921    Time Step No. = 1365 Elapsed Time = 2.453752E+06 days
6922    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6924    Time Step No. = 1366 Elapsed Time = 2.455752E+06 days
6925    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6927    Time Step No. = 1367 Elapsed Time = 2.457752E+06 days
6928    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6930    Time Step No. = 1368 Elapsed Time = 2.459752E+06 days
6931    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6933    Time Step No. = 1369 Elapsed Time = 2.461752E+06 days
6934    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6936    Time Step No. = 1370 Elapsed Time = 2.463752E+06 days
6937    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6939    Time Step No. = 1371 Elapsed Time = 2.465752E+06 days
6940    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6942    Time Step No. = 1372 Elapsed Time = 2.467752E+06 days
6943    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6945    Time Step No. = 1373 Elapsed Time = 2.469752E+06 days
6946    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6948    Time Step No. = 1374 Elapsed Time = 2.471752E+06 days
6949    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6951    Time Step No. = 1375 Elapsed Time = 2.473752E+06 days
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6952    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6954    Time Step No. = 1376 Elapsed Time = 2.475752E+06 days
6955    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6957    Time Step No. = 1377 Elapsed Time = 2.477752E+06 days
6958    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6960    Time Step No. = 1378 Elapsed Time = 2.479752E+06 days
6961    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6963    Time Step No. = 1379 Elapsed Time = 2.481752E+06 days
6964    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6966    Time Step No. = 1380 Elapsed Time = 2.483752E+06 days
6967    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6969    Time Step No. = 1381 Elapsed Time = 2.485752E+06 days
6970    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6972    Time Step No. = 1382 Elapsed Time = 2.487752E+06 days
6973    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6975    Time Step No. = 1383 Elapsed Time = 2.489752E+06 days
6976    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6978    Time Step No. = 1384 Elapsed Time = 2.491752E+06 days
6979    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6981    Time Step No. = 1385 Elapsed Time = 2.493752E+06 days
6982    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6984    Time Step No. = 1386 Elapsed Time = 2.495752E+06 days
6985    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6987    Time Step No. = 1387 Elapsed Time = 2.497752E+06 days
6988    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6990    Time Step No. = 1388 Elapsed Time = 2.499752E+06 days
6991    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6993    Time Step No. = 1389 Elapsed Time = 2.501752E+06 days
6994    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
6996    Time Step No. = 1390 Elapsed Time = 2.503752E+06 days
6997    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
6999    Time Step No. = 1391 Elapsed Time = 2.505752E+06 days
7000    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7002    Time Step No. = 1392 Elapsed Time = 2.507752E+06 days
7003    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7005    Time Step No. = 1393 Elapsed Time = 2.509752E+06 days
7006    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7008    Time Step No. = 1394 Elapsed Time = 2.511752E+06 days
7009    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7011    Time Step No. = 1395 Elapsed Time = 2.513752E+06 days
7012    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7014    Time Step No. = 1396 Elapsed Time = 2.515752E+06 days
7015    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7017    Time Step No. = 1397 Elapsed Time = 2.517752E+06 days
7018    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7020    Time Step No. = 1398 Elapsed Time = 2.519752E+06 days
7021    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7023    Time Step No. = 1399 Elapsed Time = 2.521752E+06 days
7024    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7026    Time Step No. = 1400 Elapsed Time = 2.523752E+06 days
7027    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7029    Time Step No. = 1401 Elapsed Time = 2.525752E+06 days
7030    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7032    Time Step No. = 1402 Elapsed Time = 2.527752E+06 days
7033    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7035    Time Step No. = 1403 Elapsed Time = 2.529752E+06 days
7036    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7038    Time Step No. = 1404 Elapsed Time = 2.531752E+06 days
7039    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7041    Time Step No. = 1405 Elapsed Time = 2.533752E+06 days
7042    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7044    Time Step No. = 1406 Elapsed Time = 2.535752E+06 days
7045    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7047    Time Step No. = 1407 Elapsed Time = 2.537752E+06 days
7048    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7050    Time Step No. = 1408 Elapsed Time = 2.539752E+06 days
7051    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7053    Time Step No. = 1409 Elapsed Time = 2.541752E+06 days
7054    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7056    Time Step No. = 1410 Elapsed Time = 2.543752E+06 days
7057    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7059    Time Step No. = 1411 Elapsed Time = 2.545752E+06 days
7060    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7062    Time Step No. = 1412 Elapsed Time = 2.547752E+06 days
7063    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7065    Time Step No. = 1413 Elapsed Time = 2.549752E+06 days
```

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7066    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7068    Time Step No. = 1414 Elapsed Time = 2.551752E+06 days
7069    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7071    Time Step No. = 1415 Elapsed Time = 2.553752E+06 days
7072    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7074    Time Step No. = 1416 Elapsed Time = 2.555752E+06 days
7075    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7077    Time Step No. = 1417 Elapsed Time = 2.557752E+06 days
7078    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7080    Time Step No. = 1418 Elapsed Time = 2.559752E+06 days
7081    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7083    Time Step No. = 1419 Elapsed Time = 2.561752E+06 days
7084    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7086    Time Step No. = 1420 Elapsed Time = 2.563752E+06 days
7087    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7089    Time Step No. = 1421 Elapsed Time = 2.565752E+06 days
7090    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7092    Time Step No. = 1422 Elapsed Time = 2.567752E+06 days
7093    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7095    Time Step No. = 1423 Elapsed Time = 2.569752E+06 days
7096    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7098    Time Step No. = 1424 Elapsed Time = 2.571752E+06 days
7099    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7101    Time Step No. = 1425 Elapsed Time = 2.573752E+06 days
7102    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7104    Time Step No. = 1426 Elapsed Time = 2.575752E+06 days
7105    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7107    Time Step No. = 1427 Elapsed Time = 2.577752E+06 days
7108    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7110    Time Step No. = 1428 Elapsed Time = 2.579752E+06 days
7111    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7113    Time Step No. = 1429 Elapsed Time = 2.581752E+06 days
7114    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7116    Time Step No. = 1430 Elapsed Time = 2.583752E+06 days
7117    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7119    Time Step No. = 1431 Elapsed Time = 2.585752E+06 days
7120    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7122    Time Step No. = 1432 Elapsed Time = 2.587752E+06 days
7123    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7125    Time Step No. = 1433 Elapsed Time = 2.589752E+06 days
7126    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7128    Time Step No. = 1434 Elapsed Time = 2.591752E+06 days
7129    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7131    Time Step No. = 1435 Elapsed Time = 2.593752E+06 days
7132    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7134    Time Step No. = 1436 Elapsed Time = 2.595752E+06 days
7135    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7137    Time Step No. = 1437 Elapsed Time = 2.597752E+06 days
7138    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7140    Time Step No. = 1438 Elapsed Time = 2.599752E+06 days
7141    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7143    Time Step No. = 1439 Elapsed Time = 2.601752E+06 days
7144    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7146    Time Step No. = 1440 Elapsed Time = 2.603752E+06 days
7147    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7149    Time Step No. = 1441 Elapsed Time = 2.605752E+06 days
7150    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7152    Time Step No. = 1442 Elapsed Time = 2.607752E+06 days
7153    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7155    Time Step No. = 1443 Elapsed Time = 2.609752E+06 days
7156    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7158    Time Step No. = 1444 Elapsed Time = 2.611752E+06 days
7159    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7161    Time Step No. = 1445 Elapsed Time = 2.613752E+06 days
7162    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7164    Time Step No. = 1446 Elapsed Time = 2.615752E+06 days
7165    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7167    Time Step No. = 1447 Elapsed Time = 2.617752E+06 days
7168    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7170    Time Step No. = 1448 Elapsed Time = 2.619752E+06 days
7171    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7173    Time Step No. = 1449 Elapsed Time = 2.621752E+06 days
7174    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7176    Time Step No. = 1450 Elapsed Time = 2.623752E+06 days
7177    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7179    Time Step No. = 1451 Elapsed Time = 2.625752E+06 days
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7180    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7182    Time Step No. = 1452 Elapsed Time = 2.627752E+06 days
7183    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7185    Time Step No. = 1453 Elapsed Time = 2.629752E+06 days
7186    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7188    Time Step No. = 1454 Elapsed Time = 2.631752E+06 days
7189    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7191    Time Step No. = 1455 Elapsed Time = 2.633752E+06 days
7192    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7194    Time Step No. = 1456 Elapsed Time = 2.635752E+06 days
7195    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7197    Time Step No. = 1457 Elapsed Time = 2.637752E+06 days
7198    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7200    Time Step No. = 1458 Elapsed Time = 2.639752E+06 days
7201    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7203    Time Step No. = 1459 Elapsed Time = 2.641752E+06 days
7204    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7206    Time Step No. = 1460 Elapsed Time = 2.643752E+06 days
7207    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7209    Time Step No. = 1461 Elapsed Time = 2.645752E+06 days
7210    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7212    Time Step No. = 1462 Elapsed Time = 2.647752E+06 days
7213    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7215    Time Step No. = 1463 Elapsed Time = 2.649752E+06 days
7216    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7218    Time Step No. = 1464 Elapsed Time = 2.651752E+06 days
7219    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7221    Time Step No. = 1465 Elapsed Time = 2.653752E+06 days
7222    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7224    Time Step No. = 1466 Elapsed Time = 2.655752E+06 days
7225    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7227    Time Step No. = 1467 Elapsed Time = 2.657752E+06 days
7228    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7230    Time Step No. = 1468 Elapsed Time = 2.659752E+06 days
7231    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7233    Time Step No. = 1469 Elapsed Time = 2.661752E+06 days
7234    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7236    Time Step No. = 1470 Elapsed Time = 2.663752E+06 days
7237    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7239    Time Step No. = 1471 Elapsed Time = 2.665752E+06 days
7240    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7242    Time Step No. = 1472 Elapsed Time = 2.667752E+06 days
7243    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7245    Time Step No. = 1473 Elapsed Time = 2.669752E+06 days
7246    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7248    Time Step No. = 1474 Elapsed Time = 2.671752E+06 days
7249    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7251    Time Step No. = 1475 Elapsed Time = 2.673752E+06 days
7252    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7254    Time Step No. = 1476 Elapsed Time = 2.675752E+06 days
7255    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7257    Time Step No. = 1477 Elapsed Time = 2.677752E+06 days
7258    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7260    Time Step No. = 1478 Elapsed Time = 2.679752E+06 days
7261    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7263    Time Step No. = 1479 Elapsed Time = 2.681752E+06 days
7264    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7266    Time Step No. = 1480 Elapsed Time = 2.683752E+06 days
7267    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7269    Time Step No. = 1481 Elapsed Time = 2.685752E+06 days
7270    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7272    Time Step No. = 1482 Elapsed Time = 2.687752E+06 days
7273    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7275    Time Step No. = 1483 Elapsed Time = 2.689752E+06 days
7276    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7278    Time Step No. = 1484 Elapsed Time = 2.691752E+06 days
7279    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7281    Time Step No. = 1485 Elapsed Time = 2.693752E+06 days
7282    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7284    Time Step No. = 1486 Elapsed Time = 2.695752E+06 days
7285    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7287    Time Step No. = 1487 Elapsed Time = 2.697752E+06 days
7288    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7290    Time Step No. = 1488 Elapsed Time = 2.699752E+06 days
7291    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7293    Time Step No. = 1489 Elapsed Time = 2.701752E+06 days
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7294    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7296    Time Step No. = 1490 Elapsed Time = 2.703752E+06 days
7297    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7299    Time Step No. = 1491 Elapsed Time = 2.705752E+06 days
7300    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7302    Time Step No. = 1492 Elapsed Time = 2.707752E+06 days
7303    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7305    Time Step No. = 1493 Elapsed Time = 2.709752E+06 days
7306    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7308    Time Step No. = 1494 Elapsed Time = 2.711752E+06 days
7309    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7311    Time Step No. = 1495 Elapsed Time = 2.713752E+06 days
7312    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7314    Time Step No. = 1496 Elapsed Time = 2.715752E+06 days
7315    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7317    Time Step No. = 1497 Elapsed Time = 2.717752E+06 days
7318    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7320    Time Step No. = 1498 Elapsed Time = 2.719752E+06 days
7321    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7323    Time Step No. = 1499 Elapsed Time = 2.721752E+06 days
7324    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7326    Time Step No. = 1500 Elapsed Time = 2.723752E+06 days
7327    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7329    Time Step No. = 1501 Elapsed Time = 2.725752E+06 days
7330    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7332    Time Step No. = 1502 Elapsed Time = 2.727752E+06 days
7333    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7335    Time Step No. = 1503 Elapsed Time = 2.729752E+06 days
7336    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7338    Time Step No. = 1504 Elapsed Time = 2.731752E+06 days
7339    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7341    Time Step No. = 1505 Elapsed Time = 2.733752E+06 days
7342    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7344    Time Step No. = 1506 Elapsed Time = 2.735752E+06 days
7345    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7347    Time Step No. = 1507 Elapsed Time = 2.737752E+06 days
7348    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7350    Time Step No. = 1508 Elapsed Time = 2.739752E+06 days
7351    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7353    Time Step No. = 1509 Elapsed Time = 2.741752E+06 days
7354    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7356    Time Step No. = 1510 Elapsed Time = 2.743752E+06 days
7357    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7359    Time Step No. = 1511 Elapsed Time = 2.745752E+06 days
7360    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7362    Time Step No. = 1512 Elapsed Time = 2.747752E+06 days
7363    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7365    Time Step No. = 1513 Elapsed Time = 2.749752E+06 days
7366    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7368    Time Step No. = 1514 Elapsed Time = 2.751752E+06 days
7369    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7371    Time Step No. = 1515 Elapsed Time = 2.753752E+06 days
7372    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7374    Time Step No. = 1516 Elapsed Time = 2.755752E+06 days
7375    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7377    Time Step No. = 1517 Elapsed Time = 2.757752E+06 days
7378    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7380    Time Step No. = 1518 Elapsed Time = 2.759752E+06 days
7381    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7383    Time Step No. = 1519 Elapsed Time = 2.761752E+06 days
7384    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7386    Time Step No. = 1520 Elapsed Time = 2.763752E+06 days
7387    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7389    Time Step No. = 1521 Elapsed Time = 2.765752E+06 days
7390    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7392    Time Step No. = 1522 Elapsed Time = 2.767752E+06 days
7393    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7395    Time Step No. = 1523 Elapsed Time = 2.769752E+06 days
7396    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7398    Time Step No. = 1524 Elapsed Time = 2.771752E+06 days
7399    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7401    Time Step No. = 1525 Elapsed Time = 2.773752E+06 days
7402    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7404    Time Step No. = 1526 Elapsed Time = 2.775752E+06 days
7405    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7407    Time Step No. = 1527 Elapsed Time = 2.777752E+06 days
```

```
7408    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7410    Time Step No. = 1528 Elapsed Time = 2.779752E+06 days
7411    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7413    Time Step No. = 1529 Elapsed Time = 2.781752E+06 days
7414    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7416    Time Step No. = 1530 Elapsed Time = 2.783752E+06 days
7417    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7419    Time Step No. = 1531 Elapsed Time = 2.785752E+06 days
7420    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7422    Time Step No. = 1532 Elapsed Time = 2.787752E+06 days
7423    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7425    Time Step No. = 1533 Elapsed Time = 2.789752E+06 days
7426    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7428    Time Step No. = 1534 Elapsed Time = 2.791752E+06 days
7429    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7431    Time Step No. = 1535 Elapsed Time = 2.793752E+06 days
7432    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7434    Time Step No. = 1536 Elapsed Time = 2.795752E+06 days
7435    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7437    Time Step No. = 1537 Elapsed Time = 2.797752E+06 days
7438    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7440    Time Step No. = 1538 Elapsed Time = 2.799752E+06 days
7441    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7443    Time Step No. = 1539 Elapsed Time = 2.801752E+06 days
7444    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7446    Time Step No. = 1540 Elapsed Time = 2.803752E+06 days
7447    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7449    Time Step No. = 1541 Elapsed Time = 2.805752E+06 days
7450    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
7452    Time Step No. = 1542 Elapsed Time = 2.807752E+06 days
7453    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
7455    Time Step No. = 1543 Elapsed Time = 2.809752E+06 days
7456    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
7458    Time Step No. = 1544 Elapsed Time = 2.811752E+06 days
7459    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
7461    Time Step No. = 1545 Elapsed Time = 2.813752E+06 days
7462    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
7464    Time Step No. = 1546 Elapsed Time = 2.815752E+06 days
7465    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
7467    Time Step No. = 1547 Elapsed Time = 2.817752E+06 days
7468    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7470    Time Step No. = 1548 Elapsed Time = 2.819752E+06 days
7471    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7473    Time Step No. = 1549 Elapsed Time = 2.821752E+06 days
7474    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7476    Time Step No. = 1550 Elapsed Time = 2.823752E+06 days
7477    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7479    Time Step No. = 1551 Elapsed Time = 2.825752E+06 days
7480    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7482    Time Step No. = 1552 Elapsed Time = 2.827752E+06 days
7483    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
7485    Time Step No. = 1553 Elapsed Time = 2.829752E+06 days
7486    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7488    Time Step No. = 1554 Elapsed Time = 2.831752E+06 days
7489    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7491    Time Step No. = 1555 Elapsed Time = 2.833752E+06 days
7492    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7494    Time Step No. = 1556 Elapsed Time = 2.835752E+06 days
7495    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7497    Time Step No. = 1557 Elapsed Time = 2.837752E+06 days
7498    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7500    Time Step No. = 1558 Elapsed Time = 2.839752E+06 days
7501    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
7503    Time Step No. = 1559 Elapsed Time = 2.841752E+06 days
7504    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
7506    Time Step No. = 1560 Elapsed Time = 2.843752E+06 days
7507    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
7509    Time Step No. = 1561 Elapsed Time = 2.845752E+06 days
7510    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
7512    Time Step No. = 1562 Elapsed Time = 2.847752E+06 days
7513    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
7515    Time Step No. = 1563 Elapsed Time = 2.849752E+06 days
7516    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7518    Time Step No. = 1564 Elapsed Time = 2.851752E+06 days
7519    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7521    Time Step No. = 1565 Elapsed Time = 2.853752E+06 days
```

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7522    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7524    Time Step No. = 1566 Elapsed Time = 2.855752E+06 days
7525    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7527    Time Step No. = 1567 Elapsed Time = 2.857752E+06 days
7528    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7530    Time Step No. = 1568 Elapsed Time = 2.859752E+06 days
7531    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7533    Time Step No. = 1569 Elapsed Time = 2.861752E+06 days
7534    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7536    Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
7537    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7539    Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
7540    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7542    Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
7543    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7545    Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
7548    Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7551    Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7554    Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7557    Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7560    Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7563    Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
7566    Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7569    Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7572    Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7575    Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7578    Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7581    Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
7584    Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7587    Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7590    Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7593    Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7596    Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7599    Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
7602    Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7605    Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7608    Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7611    Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7614    Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7617    Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
7620    Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7623    Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7627   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
7636    CPU Time (total for run) = 3.77 sec = 0.00105 hr
7637   ********************************************************************************
******
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File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 7636     CPU Time (total for run) = 2.66 sec = 0.00074 hr
 7637     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 7832     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 ( 3.78 sec) ASCII
 7834     Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
 7835     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 ( 3.78 sec) Binary
 7837     Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
 7838     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 ( 3.78 sec) Binary
 7840     Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
 7841     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.78 ( 3.78 sec) Binary
 7843     Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
 7844     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7846     Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
 7847     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7849     Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
 7850     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7852     Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
 7853     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7855     Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
 7856     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7858     Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
 7859     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7861     Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
 7862     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.79 ( 3.79 sec) Binary
 7864     Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
 7865     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 ( 3.80 sec) Binary
 7867     Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
 7868     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 ( 3.80 sec) Binary
 7870     Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
 7871     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 ( 3.80 sec) Binary
 7873     Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
 7874     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.80 ( 3.80 sec) Binary
 7876     Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
 7877     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 ( 3.81 sec) Binary
 7879     Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
 7880     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 ( 3.81 sec) Binary
 7882     Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
 7883     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.81 ( 3.81 sec) Binary
 7885     Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
 7886     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 ( 3.82 sec) Binary
 7888     Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
 7889     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 ( 3.82 sec) Binary
 7891     Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
 7892     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 ( 3.82 sec) Binary
 7894     Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
 7895     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 ( 3.82 sec) Binary
 7897     Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
 7898     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.82 ( 3.82 sec) Binary
 7900     Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
 7901     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 ( 3.83 sec) Binary
 7903     Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
 7904     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 ( 3.83 sec) Binary
 7906     Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
 7907     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 ( 3.83 sec) Binary
 7909     Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
 7910     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 ( 3.83 sec) Binary
 7912     Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
 7913     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.83 ( 3.83 sec) Binary
 7915     Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
 7916     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 ( 3.84 sec) Binary
 7918     Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
 7919     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 ( 3.84 sec) Binary
 7921     Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
 7922     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 ( 3.84 sec) Binary
 7924     Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
 7925     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.84 ( 3.84 sec) Binary
 7927     Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
 7928     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.85 ( 3.85 sec) Binary
 7930     Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
 7931     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.85 ( 3.85 sec) Binary
 7933     Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
 7934     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 ( 3.86 sec) Binary
 7936     Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
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 7937     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 ( 3.86 sec) Binary
 7939     Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
 7940     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 ( 3.86 sec) Binary
 7942     Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
 7943     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.86 ( 3.86 sec) Binary
 7945     Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
 7946     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 ( 3.87 sec) Binary
 7948     Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
 7949     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 ( 3.87 sec) Binary
 7951     Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
 7952     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.87 ( 3.87 sec) Binary
 7954     Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
 7955     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 ( 3.88 sec) Binary
 7957     Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
 7958     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 ( 3.88 sec) Binary
 7960     Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
 7961     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 ( 3.88 sec) Binary
 7963     Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
 7964     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.88 ( 3.88 sec) Binary
 7966     Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
 7967     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.89 ( 3.89 sec) Binary
 7969     Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
 7970     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.89 ( 3.89 sec) Binary
 7973    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 7832     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) ASCII
 7834     Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
 7835     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7837     Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
 7838     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7840     Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
 7841     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7843     Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
 7844     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7846     Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
 7847     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7849     Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
 7850     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7852     Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
 7853     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7855     Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
 7856     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7858     Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
 7859     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7861     Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
 7862     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7864     Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
 7865     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7867     Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
 7868     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
 7870     Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
 7871     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
 7873     Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
 7874     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
 7876     Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
 7877     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
 7879     Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
 7880     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
 7882     Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
 7883     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7885     Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
 7886     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7888     Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
 7889     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7891     Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
 7892     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7894     Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
 7895     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7897     Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
 7898     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
 7900     Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
 7901     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
 7903     Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
 7904     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
 7906     Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
```

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 7907     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
 7909     Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
 7910     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
 7912     Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
 7913     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
 7915     Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
 7916     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
 7918     Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
 7919     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
 7921     Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
 7922     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
 7924     Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
 7925     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7927     Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
 7928     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7930     Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
 7931     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7933     Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
 7934     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7936     Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
 7937     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7939     Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
 7940     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7942     Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
 7943     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7945     Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
 7946     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7948     Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
 7949     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7951     Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
 7952     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7954     Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
 7955     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7957     Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
 7958     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7960     Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
 7961     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7963     Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
 7964     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7966     Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
 7967     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7969     Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
 7970     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7973     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 7982     CPU Time (total for run) = 3.89 sec = 0.00108 hr
 7983     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 7982     CPU Time (total for run) = 2.73 sec = 0.00076 hr
 7983     ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 8178     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) ASCII
 8180     Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
 8181     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
 8183     Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
 8184     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
 8186     Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
 8187     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
 8189     Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
 8190     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.90 ( 3.90 sec) Binary
 8192     Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
 8193     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
 8195     Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
 8196     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
 8198     Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
 8199     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.91 ( 3.91 sec) Binary
 8201     Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
 8202     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
 8204     Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
 8205     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
 8207     Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
```

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8208     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
8210     Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
8211     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.92 ( 3.92 sec) Binary
8213     Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
8214     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 ( 3.93 sec) Binary
8216     Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
8217     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 ( 3.93 sec) Binary
8219     Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
8220     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 ( 3.93 sec) Binary
8222     Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
8223     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.93 ( 3.93 sec) Binary
8225     Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
8226     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8228     Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
8229     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8231     Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8234     Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8237     Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8240     Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8243     Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.94 ( 3.94 sec) Binary
8246     Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 ( 3.95 sec) Binary
8249     Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 ( 3.95 sec) Binary
8252     Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 ( 3.95 sec) Binary
8255     Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.95 ( 3.95 sec) Binary
8258     Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 ( 3.96 sec) Binary
8261     Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 ( 3.96 sec) Binary
8264     Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 ( 3.96 sec) Binary
8267     Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.96 ( 3.96 sec) Binary
8270     Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8273     Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8276     Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8279     Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8282     Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8285     Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8288     Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8291     Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
8292     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.97 ( 3.97 sec) Binary
8294     Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 ( 3.98 sec) Binary
8297     Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 ( 3.98 sec) Binary
8300     Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 ( 3.98 sec) Binary
8303     Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.98 ( 3.98 sec) Binary
8306     Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
8309     Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
8312     Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
8315     Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
8319    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
```

```
8178   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) ASCII
8180   Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
8181   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8183   Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
8184   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8186   Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
8187   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8189   Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
8190   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8192   Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
8193   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8195   Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
8196   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8198   Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
8199   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8201   Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
8202   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8204   Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
8205   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8207   Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
8208   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8210   Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
8211   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8213   Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
8214   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8216   Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
8217   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8219   Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
8220   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8222   Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
8223   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8225   Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
8226   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8228   Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
8229   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8231   Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8234   Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8237   Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8240   Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8243   Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8246   Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8249   Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8252   Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8255   Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8258   Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8261   Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8264   Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8267   Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8270   Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8273   Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8276   Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8279   Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8282   Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8285   Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8288   Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8291   Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
```

```
 8292    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 8294    Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
 8295    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8297    Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
 8298    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8300    Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
 8301    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8303    Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
 8304    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8306    Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
 8307    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8309    Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
 8310    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 8312    Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
 8313    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 8315    Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
 8316    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 8319   ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 8328    CPU Time (total for run) = 3.99 sec = 0.00111 hr
 8329   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 8328    CPU Time (total for run) = 2.83 sec = 0.00079 hr
 8329   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 8524    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) ASCII
 8526    Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
 8527    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
 8529    Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
 8530    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 3.99 ( 3.99 sec) Binary
 8532    Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
 8533    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 ( 4.00 sec) Binary
 8535    Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
 8536    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 ( 4.00 sec) Binary
 8538    Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
 8539    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 ( 4.00 sec) Binary
 8541    Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
 8542    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.00 ( 4.00 sec) Binary
 8544    Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
 8545    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 ( 4.01 sec) Binary
 8547    Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
 8548    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 ( 4.01 sec) Binary
 8550    Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
 8551    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 ( 4.01 sec) Binary
 8553    Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
 8554    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.01 ( 4.01 sec) Binary
 8556    Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
 8557    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 ( 4.02 sec) Binary
 8559    Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
 8560    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 ( 4.02 sec) Binary
 8562    Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
 8563    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 ( 4.02 sec) Binary
 8565    Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
 8566    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.02 ( 4.02 sec) Binary
 8568    Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
 8569    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 ( 4.03 sec) Binary
 8571    Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
 8572    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 ( 4.03 sec) Binary
 8574    Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
 8575    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 ( 4.03 sec) Binary
 8577    Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
 8578    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.03 ( 4.03 sec) Binary
 8580    Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
 8581    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 ( 4.04 sec) Binary
 8583    Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
 8584    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 ( 4.04 sec) Binary
 8586    Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
 8587    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 ( 4.04 sec) Binary
 8589    Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
 8590    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.04 ( 4.04 sec) Binary
 8592    Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
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8593     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8595     Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8598     Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8601     Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.05 ( 4.05 sec) Binary
8604     Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8607     Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8610     Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.06 ( 4.06 sec) Binary
8613     Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8616     Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8619     Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8622     Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8625     Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.07 ( 4.07 sec) Binary
8628     Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8631     Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8634     Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8637     Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.08 ( 4.08 sec) Binary
8640     Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8643     Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8646     Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8649     Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.09 ( 4.09 sec) Binary
8652     Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8655     Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8658     Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8661     Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.10 ( 4.10 sec) Binary
8665     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8524     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) ASCII
8526     Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
8529     Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8532     Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8535     Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8538     Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8541     Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8544     Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8547     Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8550     Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8553     Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8556     Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8559     Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8562     Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
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 8563     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8565     Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
 8566     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8568     Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
 8569     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8571     Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
 8572     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8574     Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
 8575     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8577     Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
 8578     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8580     Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
 8581     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8583     Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
 8584     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8586     Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
 8587     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8589     Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
 8590     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
 8592     Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
 8593     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
 8595     Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
 8596     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
 8598     Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
 8599     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
 8601     Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
 8602     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
 8604     Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
 8605     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8607     Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
 8608     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8610     Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
 8611     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8613     Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
 8614     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8616     Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
 8617     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8619     Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
 8620     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
 8622     Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
 8623     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8625     Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
 8626     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8628     Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
 8629     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8631     Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
 8632     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8634     Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
 8635     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8637     Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
 8638     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
 8640     Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
 8641     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8643     Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
 8644     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8646     Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
 8647     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8649     Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
 8650     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8652     Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
 8653     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8655     Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
 8656     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8658     Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
 8659     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8661     Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
 8662     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
 8665    ***********************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 8673     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 8674     CPU Time (total for run) = 4.11 sec = 0.00114 hr
 8675    ***********************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
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 8673     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 8674     CPU Time (total for run) = 2.90 sec = 0.00081 hr
 8675     ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 8870     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.11 ( 4.11 sec) ASCII
 8872     Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
 8873     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.11 ( 4.11 sec) Binary
 8875     Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
 8876     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 ( 4.12 sec) Binary
 8878     Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
 8879     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 ( 4.12 sec) Binary
 8881     Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
 8882     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 ( 4.12 sec) Binary
 8884     Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
 8885     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 ( 4.12 sec) Binary
 8887     Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
 8888     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.12 ( 4.12 sec) Binary
 8890     Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
 8891     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 ( 4.13 sec) Binary
 8893     Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
 8894     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 ( 4.13 sec) Binary
 8896     Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
 8897     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.13 ( 4.13 sec) Binary
 8899     Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
 8900     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 ( 4.14 sec) Binary
 8902     Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
 8903     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 ( 4.14 sec) Binary
 8905     Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
 8906     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 ( 4.14 sec) Binary
 8908     Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
 8909     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.14 ( 4.14 sec) Binary
 8911     Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
 8912     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 ( 4.15 sec) Binary
 8914     Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
 8915     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 ( 4.15 sec) Binary
 8917     Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
 8918     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 ( 4.15 sec) Binary
 8920     Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
 8921     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 ( 4.15 sec) Binary
 8923     Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
 8924     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.15 ( 4.15 sec) Binary
 8926     Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
 8927     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 ( 4.16 sec) Binary
 8929     Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
 8930     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 ( 4.16 sec) Binary
 8932     Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
 8933     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.16 ( 4.16 sec) Binary
 8935     Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
 8936     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 ( 4.17 sec) Binary
 8938     Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
 8939     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 ( 4.17 sec) Binary
 8941     Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
 8942     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 ( 4.17 sec) Binary
 8944     Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
 8945     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.17 ( 4.17 sec) Binary
 8947     Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
 8948     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 ( 4.18 sec) Binary
 8950     Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
 8951     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 ( 4.18 sec) Binary
 8953     Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
 8954     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 ( 4.18 sec) Binary
 8956     Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
 8957     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.18 ( 4.18 sec) Binary
 8959     Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
 8960     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 ( 4.19 sec) Binary
 8962     Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
 8963     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 ( 4.19 sec) Binary
 8965     Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
 8966     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 ( 4.19 sec) Binary
 8968     Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
 8969     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.19 ( 4.19 sec) Binary
 8971     Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
 8972     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 ( 4.20 sec) Binary
 8974     Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
```

```
 8975     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 ( 4.20 sec) Binary
 8977     Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
 8978     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 ( 4.20 sec) Binary
 8980     Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
 8981     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.20 ( 4.20 sec) Binary
 8983     Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
 8984     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 ( 4.21 sec) Binary
 8986     Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
 8987     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 ( 4.21 sec) Binary
 8989     Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
 8990     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 ( 4.21 sec) Binary
 8992     Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
 8993     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.21 ( 4.21 sec) Binary
 8995     Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
 8996     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 ( 4.22 sec) Binary
 8998     Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
 8999     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 ( 4.22 sec) Binary
 9001     Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
 9002     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 ( 4.22 sec) Binary
 9004     Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
 9005     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.22 ( 4.22 sec) Binary
 9007     Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
 9008     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 ( 4.23 sec) Binary
 9011    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 8870     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) ASCII
 8872     Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
 8873     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8875     Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
 8876     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8878     Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
 8879     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8881     Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
 8882     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8884     Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
 8885     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8887     Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
 8888     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8890     Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
 8891     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8893     Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
 8894     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8896     Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
 8897     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8899     Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
 8900     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8902     Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
 8903     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8905     Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
 8906     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8908     Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
 8909     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8911     Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
 8912     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8914     Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
 8915     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8917     Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
 8918     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8920     Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
 8921     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8923     Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
 8924     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8926     Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
 8927     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8929     Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
 8930     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8932     Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
 8933     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8935     Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
 8936     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8938     Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
 8939     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8941     Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
 8942     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8944     Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
```

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8945     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8947     Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
8948     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
8950     Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
8951     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8953     Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
8954     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8956     Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
8957     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8959     Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
8960     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8962     Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
8963     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8965     Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
8966     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
8968     Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
8969     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8971     Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
8972     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8974     Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
8975     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8977     Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
8978     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8980     Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
8981     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8983     Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
8984     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8986     Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
8987     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8989     Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
8990     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8992     Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
8993     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
8995     Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
8996     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
8998     Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
8999     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9001     Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
9002     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9004     Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
9005     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9007     Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
9008     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9011    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9019     CPU Time (this time step) = 0.01 sec = 0.00000 hr
9020     CPU Time (total for run) = 4.23 sec = 0.00118 hr
9021    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9019     CPU Time (this time step) = 0.00 sec = 0.00000 hr
9020     CPU Time (total for run) = 2.98 sec = 0.00083 hr
9021    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
9216     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 ( 4.23 sec) ASCII
9218     Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.23 ( 4.23 sec) Binary
9221     Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9224     Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9227     Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9230     Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.24 ( 4.24 sec) Binary
9233     Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9236     Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9239     Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240     Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.25 ( 4.25 sec) Binary
9242     Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
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9243    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
9245    Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
9246    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
9248    Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
9249    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
9251    Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
9252    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.26 ( 4.26 sec) Binary
9254    Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
9255    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.27 ( 4.27 sec) Binary
9257    Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
9258    Date: 02/15/07 Time: 12:57:59 CPU Time: 0 0: 0: 4.27 ( 4.27 sec) Binary
9260    Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
9261    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.27 ( 4.27 sec) Binary
9263    Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
9264    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.27 ( 4.27 sec) Binary
9266    Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
9267    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.28 ( 4.28 sec) Binary
9269    Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
9270    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.28 ( 4.28 sec) Binary
9272    Time Step No. = 1802 Elapsed Time = 3.323269E+06 days
9273    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.28 ( 4.28 sec) Binary
9275    Time Step No. = 1803 Elapsed Time = 3.325269E+06 days
9276    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.28 ( 4.28 sec) Binary
9278    Time Step No. = 1804 Elapsed Time = 3.327269E+06 days
9279    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.29 ( 4.29 sec) Binary
9281    Time Step No. = 1805 Elapsed Time = 3.329269E+06 days
9282    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.29 ( 4.29 sec) Binary
9284    Time Step No. = 1806 Elapsed Time = 3.331269E+06 days
9285    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.29 ( 4.29 sec) Binary
9287    Time Step No. = 1807 Elapsed Time = 3.333269E+06 days
9288    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.29 ( 4.29 sec) Binary
9290    Time Step No. = 1808 Elapsed Time = 3.335269E+06 days
9291    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.30 ( 4.30 sec) Binary
9293    Time Step No. = 1809 Elapsed Time = 3.337269E+06 days
9294    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.30 ( 4.30 sec) Binary
9296    Time Step No. = 1810 Elapsed Time = 3.339269E+06 days
9297    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.30 ( 4.30 sec) Binary
9299    Time Step No. = 1811 Elapsed Time = 3.341269E+06 days
9300    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.30 ( 4.30 sec) Binary
9302    Time Step No. = 1812 Elapsed Time = 3.343269E+06 days
9303    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.31 ( 4.31 sec) Binary
9305    Time Step No. = 1813 Elapsed Time = 3.345269E+06 days
9306    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.31 ( 4.31 sec) Binary
9308    Time Step No. = 1814 Elapsed Time = 3.347269E+06 days
9309    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.31 ( 4.31 sec) Binary
9311    Time Step No. = 1815 Elapsed Time = 3.349269E+06 days
9312    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.31 ( 4.31 sec) Binary
9314    Time Step No. = 1816 Elapsed Time = 3.351269E+06 days
9315    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.32 ( 4.32 sec) Binary
9317    Time Step No. = 1817 Elapsed Time = 3.353269E+06 days
9318    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.32 ( 4.32 sec) Binary
9320    Time Step No. = 1818 Elapsed Time = 3.355269E+06 days
9321    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.32 ( 4.32 sec) Binary
9323    Time Step No. = 1819 Elapsed Time = 3.357269E+06 days
9324    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.32 ( 4.32 sec) Binary
9326    Time Step No. = 1820 Elapsed Time = 3.359269E+06 days
9327    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) Binary
9329    Time Step No. = 1821 Elapsed Time = 3.361269E+06 days
9330    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) Binary
9332    Time Step No. = 1822 Elapsed Time = 3.363269E+06 days
9333    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) Binary
9335    Time Step No. = 1823 Elapsed Time = 3.365269E+06 days
9336    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.33 ( 4.33 sec) Binary
9338    Time Step No. = 1824 Elapsed Time = 3.367269E+06 days
9339    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.34 ( 4.34 sec) Binary
9341    Time Step No. = 1825 Elapsed Time = 3.369269E+06 days
9342    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.34 ( 4.34 sec) Binary
9344    Time Step No. = 1826 Elapsed Time = 3.371269E+06 days
9345    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.34 ( 4.34 sec) Binary
9347    Time Step No. = 1827 Elapsed Time = 3.373269E+06 days
9348    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.35 ( 4.35 sec) Binary
9350    Time Step No. = 1828 Elapsed Time = 3.375269E+06 days
9351    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.35 ( 4.35 sec) Binary
9353    Time Step No. = 1829 Elapsed Time = 3.377269E+06 days
9354    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.35 ( 4.35 sec) Binary
9356    Time Step No. = 1830 Elapsed Time = 3.379269E+06 days
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9357    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.35 ( 4.35 sec) Binary
9359    Time Step No. = 1831 Elapsed Time = 3.381269E+06 days
9360    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.35 ( 4.35 sec) Binary
9362    Time Step No. = 1832 Elapsed Time = 3.383269E+06 days
9363    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.36 ( 4.36 sec) Binary
9365    Time Step No. = 1833 Elapsed Time = 3.385269E+06 days
9366    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.36 ( 4.36 sec) Binary
9368    Time Step No. = 1834 Elapsed Time = 3.387269E+06 days
9369    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.36 ( 4.36 sec) Binary
9371    Time Step No. = 1835 Elapsed Time = 3.389269E+06 days
9372    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.36 ( 4.36 sec) Binary
9374    Time Step No. = 1836 Elapsed Time = 3.391269E+06 days
9375    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.37 ( 4.37 sec) Binary
9377    Time Step No. = 1837 Elapsed Time = 3.393269E+06 days
9378    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.37 ( 4.37 sec) Binary
9380    Time Step No. = 1838 Elapsed Time = 3.395269E+06 days
9381    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.37 ( 4.37 sec) Binary
9383    Time Step No. = 1839 Elapsed Time = 3.397269E+06 days
9384    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.37 ( 4.37 sec) Binary
9386    Time Step No. = 1840 Elapsed Time = 3.399269E+06 days
9387    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.38 ( 4.38 sec) Binary
9389    Time Step No. = 1841 Elapsed Time = 3.401269E+06 days
9390    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.38 ( 4.38 sec) Binary
9392    Time Step No. = 1842 Elapsed Time = 3.403269E+06 days
9393    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.38 ( 4.38 sec) Binary
9395    Time Step No. = 1843 Elapsed Time = 3.405269E+06 days
9396    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.38 ( 4.38 sec) Binary
9398    Time Step No. = 1844 Elapsed Time = 3.407269E+06 days
9399    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
9401    Time Step No. = 1845 Elapsed Time = 3.409269E+06 days
9402    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
9404    Time Step No. = 1846 Elapsed Time = 3.411269E+06 days
9405    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
9407    Time Step No. = 1847 Elapsed Time = 3.413269E+06 days
9408    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.39 ( 4.39 sec) Binary
9410    Time Step No. = 1848 Elapsed Time = 3.415269E+06 days
9411    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.40 ( 4.40 sec) Binary
9413    Time Step No. = 1849 Elapsed Time = 3.417269E+06 days
9414    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.40 ( 4.40 sec) Binary
9416    Time Step No. = 1850 Elapsed Time = 3.419269E+06 days
9417    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.40 ( 4.40 sec) Binary
9419    Time Step No. = 1851 Elapsed Time = 3.421269E+06 days
9420    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.40 ( 4.40 sec) Binary
9422    Time Step No. = 1852 Elapsed Time = 3.423269E+06 days
9423    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.41 ( 4.41 sec) Binary
9425    Time Step No. = 1853 Elapsed Time = 3.425269E+06 days
9426    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.41 ( 4.41 sec) Binary
9428    Time Step No. = 1854 Elapsed Time = 3.427269E+06 days
9429    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.41 ( 4.41 sec) Binary
9431    Time Step No. = 1855 Elapsed Time = 3.429269E+06 days
9432    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.42 ( 4.42 sec) Binary
9434    Time Step No. = 1856 Elapsed Time = 3.431269E+06 days
9435    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.42 ( 4.42 sec) Binary
9437    Time Step No. = 1857 Elapsed Time = 3.433269E+06 days
9438    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.42 ( 4.42 sec) Binary
9440    Time Step No. = 1858 Elapsed Time = 3.435269E+06 days
9441    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.42 ( 4.42 sec) Binary
9443    Time Step No. = 1859 Elapsed Time = 3.437269E+06 days
9444    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.42 ( 4.42 sec) Binary
9446    Time Step No. = 1860 Elapsed Time = 3.439269E+06 days
9447    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.43 ( 4.43 sec) Binary
9449    Time Step No. = 1861 Elapsed Time = 3.441269E+06 days
9450    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.43 ( 4.43 sec) Binary
9452    Time Step No. = 1862 Elapsed Time = 3.443269E+06 days
9453    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.43 ( 4.43 sec) Binary
9455    Time Step No. = 1863 Elapsed Time = 3.445269E+06 days
9456    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.43 ( 4.43 sec) Binary
9458    Time Step No. = 1864 Elapsed Time = 3.447269E+06 days
9459    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.44 ( 4.44 sec) Binary
9461    Time Step No. = 1865 Elapsed Time = 3.449269E+06 days
9462    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.44 ( 4.44 sec) Binary
9464    Time Step No. = 1866 Elapsed Time = 3.451269E+06 days
9465    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.45 ( 4.45 sec) Binary
9467    Time Step No. = 1867 Elapsed Time = 3.453269E+06 days
9468    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.45 ( 4.45 sec) Binary
9470    Time Step No. = 1868 Elapsed Time = 3.455269E+06 days
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9471    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.45 ( 4.45 sec) Binary
9473    Time Step No. = 1869 Elapsed Time = 3.457269E+06 days
9474    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.45 ( 4.45 sec) Binary
9476    Time Step No. = 1870 Elapsed Time = 3.459269E+06 days
9477    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.46 ( 4.46 sec) Binary
9479    Time Step No. = 1871 Elapsed Time = 3.461269E+06 days
9480    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.46 ( 4.46 sec) Binary
9482    Time Step No. = 1872 Elapsed Time = 3.463269E+06 days
9483    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.46 ( 4.46 sec) Binary
9485    Time Step No. = 1873 Elapsed Time = 3.465269E+06 days
9486    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.46 ( 4.46 sec) Binary
9488    Time Step No. = 1874 Elapsed Time = 3.467269E+06 days
9489    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.47 ( 4.47 sec) Binary
9491    Time Step No. = 1875 Elapsed Time = 3.469269E+06 days
9492    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.47 ( 4.47 sec) Binary
9494    Time Step No. = 1876 Elapsed Time = 3.471269E+06 days
9495    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.47 ( 4.47 sec) Binary
9497    Time Step No. = 1877 Elapsed Time = 3.473269E+06 days
9498    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.47 ( 4.47 sec) Binary
9500    Time Step No. = 1878 Elapsed Time = 3.475269E+06 days
9501    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) Binary
9503    Time Step No. = 1879 Elapsed Time = 3.477269E+06 days
9504    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) Binary
9506    Time Step No. = 1880 Elapsed Time = 3.479269E+06 days
9507    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.48 ( 4.48 sec) Binary
9509    Time Step No. = 1881 Elapsed Time = 3.481269E+06 days
9510    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.49 ( 4.49 sec) Binary
9512    Time Step No. = 1882 Elapsed Time = 3.483269E+06 days
9513    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.49 ( 4.49 sec) Binary
9515    Time Step No. = 1883 Elapsed Time = 3.485269E+06 days
9516    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.49 ( 4.49 sec) Binary
9518    Time Step No. = 1884 Elapsed Time = 3.487269E+06 days
9519    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.49 ( 4.49 sec) Binary
9521    Time Step No. = 1885 Elapsed Time = 3.489269E+06 days
9522    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.50 ( 4.50 sec) Binary
9524    Time Step No. = 1886 Elapsed Time = 3.491269E+06 days
9525    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.50 ( 4.50 sec) Binary
9527    Time Step No. = 1887 Elapsed Time = 3.493269E+06 days
9528    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.50 ( 4.50 sec) Binary
9530    Time Step No. = 1888 Elapsed Time = 3.495269E+06 days
9531    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.50 ( 4.50 sec) Binary
9533    Time Step No. = 1889 Elapsed Time = 3.497269E+06 days
9534    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.50 ( 4.50 sec) Binary
9536    Time Step No. = 1890 Elapsed Time = 3.499269E+06 days
9537    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.51 ( 4.51 sec) Binary
9539    Time Step No. = 1891 Elapsed Time = 3.501269E+06 days
9540    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.51 ( 4.51 sec) Binary
9542    Time Step No. = 1892 Elapsed Time = 3.503269E+06 days
9543    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.51 ( 4.51 sec) Binary
9545    Time Step No. = 1893 Elapsed Time = 3.505269E+06 days
9546    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.52 ( 4.52 sec) Binary
9548    Time Step No. = 1894 Elapsed Time = 3.507269E+06 days
9549    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.52 ( 4.52 sec) Binary
9551    Time Step No. = 1895 Elapsed Time = 3.509269E+06 days
9552    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.52 ( 4.52 sec) Binary
9554    Time Step No. = 1896 Elapsed Time = 3.511269E+06 days
9555    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.52 ( 4.52 sec) Binary
9557    Time Step No. = 1897 Elapsed Time = 3.513269E+06 days
9558    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.53 ( 4.53 sec) Binary
9560    Time Step No. = 1898 Elapsed Time = 3.515269E+06 days
9561    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.53 ( 4.53 sec) Binary
9563    Time Step No. = 1899 Elapsed Time = 3.517269E+06 days
9564    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.53 ( 4.53 sec) Binary
9566    Time Step No. = 1900 Elapsed Time = 3.519269E+06 days
9567    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.53 ( 4.53 sec) Binary
9569    Time Step No. = 1901 Elapsed Time = 3.521269E+06 days
9570    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9572    Time Step No. = 1902 Elapsed Time = 3.523269E+06 days
9573    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9575    Time Step No. = 1903 Elapsed Time = 3.525269E+06 days
9576    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9578    Time Step No. = 1904 Elapsed Time = 3.527269E+06 days
9579    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9581    Time Step No. = 1905 Elapsed Time = 3.529269E+06 days
9582    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9584    Time Step No. = 1906 Elapsed Time = 3.531269E+06 days
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9585    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9587    Time Step No. = 1907 Elapsed Time = 3.533269E+06 days
9588    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9590    Time Step No. = 1908 Elapsed Time = 3.535269E+06 days
9591    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.54 ( 4.54 sec) Binary
9593    Time Step No. = 1909 Elapsed Time = 3.537269E+06 days
9594    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.55 ( 4.55 sec) Binary
9596    Time Step No. = 1910 Elapsed Time = 3.539269E+06 days
9597    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.55 ( 4.55 sec) Binary
9599    Time Step No. = 1911 Elapsed Time = 3.541269E+06 days
9600    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.55 ( 4.55 sec) Binary
9602    Time Step No. = 1912 Elapsed Time = 3.543269E+06 days
9603    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.55 ( 4.55 sec) Binary
9605    Time Step No. = 1913 Elapsed Time = 3.545269E+06 days
9606    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.56 ( 4.56 sec) Binary
9608    Time Step No. = 1914 Elapsed Time = 3.547269E+06 days
9609    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.56 ( 4.56 sec) Binary
9611    Time Step No. = 1915 Elapsed Time = 3.549269E+06 days
9612    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.56 ( 4.56 sec) Binary
9614    Time Step No. = 1916 Elapsed Time = 3.551269E+06 days
9615    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.56 ( 4.56 sec) Binary
9617    Time Step No. = 1917 Elapsed Time = 3.553269E+06 days
9618    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.56 ( 4.56 sec) Binary
9620    Time Step No. = 1918 Elapsed Time = 3.555269E+06 days
9621    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.57 ( 4.57 sec) Binary
9623    Time Step No. = 1919 Elapsed Time = 3.557269E+06 days
9624    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.57 ( 4.57 sec) Binary
9626    Time Step No. = 1920 Elapsed Time = 3.559269E+06 days
9627    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.57 ( 4.57 sec) Binary
9629    Time Step No. = 1921 Elapsed Time = 3.561269E+06 days
9630    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.58 ( 4.58 sec) Binary
9632    Time Step No. = 1922 Elapsed Time = 3.563269E+06 days
9633    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.58 ( 4.58 sec) Binary
9635    Time Step No. = 1923 Elapsed Time = 3.565269E+06 days
9636    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.58 ( 4.58 sec) Binary
9638    Time Step No. = 1924 Elapsed Time = 3.567269E+06 days
9639    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.58 ( 4.58 sec) Binary
9641    Time Step No. = 1925 Elapsed Time = 3.569269E+06 days
9642    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9644    Time Step No. = 1926 Elapsed Time = 3.571269E+06 days
9645    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9647    Time Step No. = 1927 Elapsed Time = 3.573269E+06 days
9648    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9650    Time Step No. = 1928 Elapsed Time = 3.575269E+06 days
9651    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9653    Time Step No. = 1929 Elapsed Time = 3.577269E+06 days
9654    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9656    Time Step No. = 1930 Elapsed Time = 3.579269E+06 days
9657    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9659    Time Step No. = 1931 Elapsed Time = 3.581269E+06 days
9660    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9662    Time Step No. = 1932 Elapsed Time = 3.583269E+06 days
9663    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.59 ( 4.59 sec) Binary
9665    Time Step No. = 1933 Elapsed Time = 3.585269E+06 days
9666    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.60 ( 4.60 sec) Binary
9668    Time Step No. = 1934 Elapsed Time = 3.587269E+06 days
9669    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.60 ( 4.60 sec) Binary
9671    Time Step No. = 1935 Elapsed Time = 3.589269E+06 days
9672    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.60 ( 4.60 sec) Binary
9674    Time Step No. = 1936 Elapsed Time = 3.591269E+06 days
9675    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.60 ( 4.60 sec) Binary
9677    Time Step No. = 1937 Elapsed Time = 3.593269E+06 days
9678    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.61 ( 4.61 sec) Binary
9680    Time Step No. = 1938 Elapsed Time = 3.595269E+06 days
9681    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.61 ( 4.61 sec) Binary
9683    Time Step No. = 1939 Elapsed Time = 3.597269E+06 days
9684    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.61 ( 4.61 sec) Binary
9686    Time Step No. = 1940 Elapsed Time = 3.599269E+06 days
9687    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.61 ( 4.61 sec) Binary
9689    Time Step No. = 1941 Elapsed Time = 3.601269E+06 days
9690    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.62 ( 4.62 sec) Binary
9692    Time Step No. = 1942 Elapsed Time = 3.603269E+06 days
9693    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.62 ( 4.62 sec) Binary
9695    Time Step No. = 1943 Elapsed Time = 3.605269E+06 days
9696    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.62 ( 4.62 sec) Binary
9698    Time Step No. = 1944 Elapsed Time = 3.607269E+06 days
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9699    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.62 ( 4.62 sec) Binary
9701    Time Step No. = 1945 Elapsed Time = 3.609269E+06 days
9702    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9704    Time Step No. = 1946 Elapsed Time = 3.611269E+06 days
9705    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9707    Time Step No. = 1947 Elapsed Time = 3.613269E+06 days
9708    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9710    Time Step No. = 1948 Elapsed Time = 3.615269E+06 days
9711    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.63 ( 4.63 sec) Binary
9713    Time Step No. = 1949 Elapsed Time = 3.617269E+06 days
9714    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9716    Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
9717    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9719    Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
9720    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9722    Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
9723    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.64 ( 4.64 sec) Binary
9725    Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
9726    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9728    Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
9729    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9731    Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
9732    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9734    Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
9735    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9737    Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
9738    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9740    Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
9741    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9743    Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
9744    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9746    Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
9747    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.65 ( 4.65 sec) Binary
9749    Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
9750    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9752    Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
9753    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9755    Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
9756    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9758    Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
9759    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.66 ( 4.66 sec) Binary
9761    Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
9762    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.67 ( 4.67 sec) Binary
9764    Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
9765    Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.67 ( 4.67 sec) Binary
9768   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
9216    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) ASCII
9218    Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
9219    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9221    Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
9222    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9224    Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
9225    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9227    Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
9228    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9230    Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
9231    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9233    Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
9234    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9236    Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
9237    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9239    Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
9240    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9242    Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
9243    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9245    Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
9246    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9248    Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
9249    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9251    Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
9252    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9254    Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
9255    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9257    Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
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9258    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9260    Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
9261    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9263    Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
9264    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9266    Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
9267    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9269    Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
9270    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9272    Time Step No. = 1802 Elapsed Time = 3.323269E+06 days
9273    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9275    Time Step No. = 1803 Elapsed Time = 3.325269E+06 days
9276    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9278    Time Step No. = 1804 Elapsed Time = 3.327269E+06 days
9279    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9281    Time Step No. = 1805 Elapsed Time = 3.329269E+06 days
9282    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9284    Time Step No. = 1806 Elapsed Time = 3.331269E+06 days
9285    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9287    Time Step No. = 1807 Elapsed Time = 3.333269E+06 days
9288    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9290    Time Step No. = 1808 Elapsed Time = 3.335269E+06 days
9291    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9293    Time Step No. = 1809 Elapsed Time = 3.337269E+06 days
9294    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9296    Time Step No. = 1810 Elapsed Time = 3.339269E+06 days
9297    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9299    Time Step No. = 1811 Elapsed Time = 3.341269E+06 days
9300    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9302    Time Step No. = 1812 Elapsed Time = 3.343269E+06 days
9303    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9305    Time Step No. = 1813 Elapsed Time = 3.345269E+06 days
9306    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9308    Time Step No. = 1814 Elapsed Time = 3.347269E+06 days
9309    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9311    Time Step No. = 1815 Elapsed Time = 3.349269E+06 days
9312    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9314    Time Step No. = 1816 Elapsed Time = 3.351269E+06 days
9315    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9317    Time Step No. = 1817 Elapsed Time = 3.353269E+06 days
9318    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9320    Time Step No. = 1818 Elapsed Time = 3.355269E+06 days
9321    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9323    Time Step No. = 1819 Elapsed Time = 3.357269E+06 days
9324    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9326    Time Step No. = 1820 Elapsed Time = 3.359269E+06 days
9327    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9329    Time Step No. = 1821 Elapsed Time = 3.361269E+06 days
9330    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9332    Time Step No. = 1822 Elapsed Time = 3.363269E+06 days
9333    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9335    Time Step No. = 1823 Elapsed Time = 3.365269E+06 days
9336    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9338    Time Step No. = 1824 Elapsed Time = 3.367269E+06 days
9339    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9341    Time Step No. = 1825 Elapsed Time = 3.369269E+06 days
9342    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9344    Time Step No. = 1826 Elapsed Time = 3.371269E+06 days
9345    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9347    Time Step No. = 1827 Elapsed Time = 3.373269E+06 days
9348    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9350    Time Step No. = 1828 Elapsed Time = 3.375269E+06 days
9351    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9353    Time Step No. = 1829 Elapsed Time = 3.377269E+06 days
9354    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9356    Time Step No. = 1830 Elapsed Time = 3.379269E+06 days
9357    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9359    Time Step No. = 1831 Elapsed Time = 3.381269E+06 days
9360    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9362    Time Step No. = 1832 Elapsed Time = 3.383269E+06 days
9363    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9365    Time Step No. = 1833 Elapsed Time = 3.385269E+06 days
9366    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9368    Time Step No. = 1834 Elapsed Time = 3.387269E+06 days
9369    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9371    Time Step No. = 1835 Elapsed Time = 3.389269E+06 days
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9372  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9374  Time Step No. = 1836 Elapsed Time = 3.391269E+06 days
9375  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9377  Time Step No. = 1837 Elapsed Time = 3.393269E+06 days
9378  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9380  Time Step No. = 1838 Elapsed Time = 3.395269E+06 days
9381  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9383  Time Step No. = 1839 Elapsed Time = 3.397269E+06 days
9384  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9386  Time Step No. = 1840 Elapsed Time = 3.399269E+06 days
9387  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9389  Time Step No. = 1841 Elapsed Time = 3.401269E+06 days
9390  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9392  Time Step No. = 1842 Elapsed Time = 3.403269E+06 days
9393  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9395  Time Step No. = 1843 Elapsed Time = 3.405269E+06 days
9396  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9398  Time Step No. = 1844 Elapsed Time = 3.407269E+06 days
9399  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9401  Time Step No. = 1845 Elapsed Time = 3.409269E+06 days
9402  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9404  Time Step No. = 1846 Elapsed Time = 3.411269E+06 days
9405  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9407  Time Step No. = 1847 Elapsed Time = 3.413269E+06 days
9408  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9410  Time Step No. = 1848 Elapsed Time = 3.415269E+06 days
9411  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9413  Time Step No. = 1849 Elapsed Time = 3.417269E+06 days
9414  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9416  Time Step No. = 1850 Elapsed Time = 3.419269E+06 days
9417  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9419  Time Step No. = 1851 Elapsed Time = 3.421269E+06 days
9420  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9422  Time Step No. = 1852 Elapsed Time = 3.423269E+06 days
9423  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9425  Time Step No. = 1853 Elapsed Time = 3.425269E+06 days
9426  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9428  Time Step No. = 1854 Elapsed Time = 3.427269E+06 days
9429  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9431  Time Step No. = 1855 Elapsed Time = 3.429269E+06 days
9432  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9434  Time Step No. = 1856 Elapsed Time = 3.431269E+06 days
9435  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9437  Time Step No. = 1857 Elapsed Time = 3.433269E+06 days
9438  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9440  Time Step No. = 1858 Elapsed Time = 3.435269E+06 days
9441  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9443  Time Step No. = 1859 Elapsed Time = 3.437269E+06 days
9444  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9446  Time Step No. = 1860 Elapsed Time = 3.439269E+06 days
9447  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9449  Time Step No. = 1861 Elapsed Time = 3.441269E+06 days
9450  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9452  Time Step No. = 1862 Elapsed Time = 3.443269E+06 days
9453  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9455  Time Step No. = 1863 Elapsed Time = 3.445269E+06 days
9456  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9458  Time Step No. = 1864 Elapsed Time = 3.447269E+06 days
9459  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9461  Time Step No. = 1865 Elapsed Time = 3.449269E+06 days
9462  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9464  Time Step No. = 1866 Elapsed Time = 3.451269E+06 days
9465  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9467  Time Step No. = 1867 Elapsed Time = 3.453269E+06 days
9468  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9470  Time Step No. = 1868 Elapsed Time = 3.455269E+06 days
9471  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9473  Time Step No. = 1869 Elapsed Time = 3.457269E+06 days
9474  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9476  Time Step No. = 1870 Elapsed Time = 3.459269E+06 days
9477  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9479  Time Step No. = 1871 Elapsed Time = 3.461269E+06 days
9480  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9482  Time Step No. = 1872 Elapsed Time = 3.463269E+06 days
9483  Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9485  Time Step No. = 1873 Elapsed Time = 3.465269E+06 days
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9486    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9488    Time Step No. = 1874 Elapsed Time = 3.467269E+06 days
9489    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9491    Time Step No. = 1875 Elapsed Time = 3.469269E+06 days
9492    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9494    Time Step No. = 1876 Elapsed Time = 3.471269E+06 days
9495    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9497    Time Step No. = 1877 Elapsed Time = 3.473269E+06 days
9498    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9500    Time Step No. = 1878 Elapsed Time = 3.475269E+06 days
9501    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9503    Time Step No. = 1879 Elapsed Time = 3.477269E+06 days
9504    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9506    Time Step No. = 1880 Elapsed Time = 3.479269E+06 days
9507    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9509    Time Step No. = 1881 Elapsed Time = 3.481269E+06 days
9510    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9512    Time Step No. = 1882 Elapsed Time = 3.483269E+06 days
9513    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9515    Time Step No. = 1883 Elapsed Time = 3.485269E+06 days
9516    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9518    Time Step No. = 1884 Elapsed Time = 3.487269E+06 days
9519    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9521    Time Step No. = 1885 Elapsed Time = 3.489269E+06 days
9522    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9524    Time Step No. = 1886 Elapsed Time = 3.491269E+06 days
9525    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9527    Time Step No. = 1887 Elapsed Time = 3.493269E+06 days
9528    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9530    Time Step No. = 1888 Elapsed Time = 3.495269E+06 days
9531    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9533    Time Step No. = 1889 Elapsed Time = 3.497269E+06 days
9534    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9536    Time Step No. = 1890 Elapsed Time = 3.499269E+06 days
9537    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9539    Time Step No. = 1891 Elapsed Time = 3.501269E+06 days
9540    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9542    Time Step No. = 1892 Elapsed Time = 3.503269E+06 days
9543    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9545    Time Step No. = 1893 Elapsed Time = 3.505269E+06 days
9546    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9548    Time Step No. = 1894 Elapsed Time = 3.507269E+06 days
9549    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9551    Time Step No. = 1895 Elapsed Time = 3.509269E+06 days
9552    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9554    Time Step No. = 1896 Elapsed Time = 3.511269E+06 days
9555    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9557    Time Step No. = 1897 Elapsed Time = 3.513269E+06 days
9558    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9560    Time Step No. = 1898 Elapsed Time = 3.515269E+06 days
9561    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9563    Time Step No. = 1899 Elapsed Time = 3.517269E+06 days
9564    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9566    Time Step No. = 1900 Elapsed Time = 3.519269E+06 days
9567    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9569    Time Step No. = 1901 Elapsed Time = 3.521269E+06 days
9570    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9572    Time Step No. = 1902 Elapsed Time = 3.523269E+06 days
9573    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9575    Time Step No. = 1903 Elapsed Time = 3.525269E+06 days
9576    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9578    Time Step No. = 1904 Elapsed Time = 3.527269E+06 days
9579    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9581    Time Step No. = 1905 Elapsed Time = 3.529269E+06 days
9582    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9584    Time Step No. = 1906 Elapsed Time = 3.531269E+06 days
9585    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9587    Time Step No. = 1907 Elapsed Time = 3.533269E+06 days
9588    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9590    Time Step No. = 1908 Elapsed Time = 3.535269E+06 days
9591    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9593    Time Step No. = 1909 Elapsed Time = 3.537269E+06 days
9594    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9596    Time Step No. = 1910 Elapsed Time = 3.539269E+06 days
9597    Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9599    Time Step No. = 1911 Elapsed Time = 3.541269E+06 days
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9600   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9602   Time Step No. = 1912 Elapsed Time = 3.543269E+06 days
9603   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9605   Time Step No. = 1913 Elapsed Time = 3.545269E+06 days
9606   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9608   Time Step No. = 1914 Elapsed Time = 3.547269E+06 days
9609   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9611   Time Step No. = 1915 Elapsed Time = 3.549269E+06 days
9612   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9614   Time Step No. = 1916 Elapsed Time = 3.551269E+06 days
9615   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9617   Time Step No. = 1917 Elapsed Time = 3.553269E+06 days
9618   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9620   Time Step No. = 1918 Elapsed Time = 3.555269E+06 days
9621   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9623   Time Step No. = 1919 Elapsed Time = 3.557269E+06 days
9624   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9626   Time Step No. = 1920 Elapsed Time = 3.559269E+06 days
9627   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9629   Time Step No. = 1921 Elapsed Time = 3.561269E+06 days
9630   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9632   Time Step No. = 1922 Elapsed Time = 3.563269E+06 days
9633   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9635   Time Step No. = 1923 Elapsed Time = 3.565269E+06 days
9636   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9638   Time Step No. = 1924 Elapsed Time = 3.567269E+06 days
9639   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9641   Time Step No. = 1925 Elapsed Time = 3.569269E+06 days
9642   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9644   Time Step No. = 1926 Elapsed Time = 3.571269E+06 days
9645   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9647   Time Step No. = 1927 Elapsed Time = 3.573269E+06 days
9648   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9650   Time Step No. = 1928 Elapsed Time = 3.575269E+06 days
9651   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9653   Time Step No. = 1929 Elapsed Time = 3.577269E+06 days
9654   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9656   Time Step No. = 1930 Elapsed Time = 3.579269E+06 days
9657   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9659   Time Step No. = 1931 Elapsed Time = 3.581269E+06 days
9660   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9662   Time Step No. = 1932 Elapsed Time = 3.583269E+06 days
9663   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9665   Time Step No. = 1933 Elapsed Time = 3.585269E+06 days
9666   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9668   Time Step No. = 1934 Elapsed Time = 3.587269E+06 days
9669   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9671   Time Step No. = 1935 Elapsed Time = 3.589269E+06 days
9672   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9674   Time Step No. = 1936 Elapsed Time = 3.591269E+06 days
9675   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9677   Time Step No. = 1937 Elapsed Time = 3.593269E+06 days
9678   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9680   Time Step No. = 1938 Elapsed Time = 3.595269E+06 days
9681   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9683   Time Step No. = 1939 Elapsed Time = 3.597269E+06 days
9684   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9686   Time Step No. = 1940 Elapsed Time = 3.599269E+06 days
9687   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9689   Time Step No. = 1941 Elapsed Time = 3.601269E+06 days
9690   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9692   Time Step No. = 1942 Elapsed Time = 3.603269E+06 days
9693   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9695   Time Step No. = 1943 Elapsed Time = 3.605269E+06 days
9696   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9698   Time Step No. = 1944 Elapsed Time = 3.607269E+06 days
9699   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9701   Time Step No. = 1945 Elapsed Time = 3.609269E+06 days
9702   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9704   Time Step No. = 1946 Elapsed Time = 3.611269E+06 days
9705   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9707   Time Step No. = 1947 Elapsed Time = 3.613269E+06 days
9708   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9710   Time Step No. = 1948 Elapsed Time = 3.615269E+06 days
9711   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9713   Time Step No. = 1949 Elapsed Time = 3.617269E+06 days
```

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 9714     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
 9716     Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
 9717     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
 9719     Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
 9720     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
 9722     Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
 9723     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9725     Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
 9726     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9728     Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
 9729     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9731     Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
 9732     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9734     Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
 9735     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9737     Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
 9738     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
 9740     Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
 9741     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9743     Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
 9744     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9746     Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
 9747     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9749     Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
 9750     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9752     Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
 9753     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9755     Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
 9756     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9758     Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
 9759     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9761     Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
 9762     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9764     Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
 9765     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9768    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 9777     CPU Time (total for run) = 4.67 sec = 0.00130 hr
 9778    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9777     CPU Time (total for run) = 3.31 sec = 0.00092 hr
 9778    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1
 9973     Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.68 ( 4.68 sec) ASCII
 9975     Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
 9976     Date: 02/15/07 Time: 12:58:00 CPU Time: 0 0: 0: 4.68 ( 4.68 sec) Binary
 9981     ********************************************************************************
 9982     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 9983     * Completed: 02/15/07 at 12:58:00 Run on: BTO - ALPHA AXP OpenVMS V8.2 *
 9984     ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9973     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) ASCII
 9975     Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
 9976     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9981     ********************************************************************************
 9982     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 9983     * Completed: 02/14/07 at 16:02:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 9984     ********************************************************************************
************

Number of difference sections found: 38
Number of difference records found: 3847

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES40_TEST14.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES40.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
```

BF2_QB0600_ES45_TEST14_OUT.DIF

```
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
    3     ** Begun on: 02/15/07 at 12:58:17 Run on: TDN - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
    3     ** Begun on: 02/14/07 at 16:02:41 Run on: TBB - ALPHA AXP OpenVMS V8.2 **
    4     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_TEST14.INP;1
   62     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   61     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_TEST14.INP;1
   62     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   66     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_CLOSURE.DAT;1
   67     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   72     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   71     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   72     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.SUM;1
   77     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   76     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.SUM;1
   77     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.BIN;1
   82     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
   81     PAA:[ANALYSIS.BF.QB0600.ES47.TEST14]BF2_QB0600_ES47_TEST14.BIN;1
   82     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
  963     CPU Time (total for run) = 0.16 sec = 0.00004 hr
  964     ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
  963     CPU Time (total for run) = 0.12 sec = 0.00003 hr
  964     ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1159     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) ASCII
 1161     Time Step No. = 69 Elapsed Time = 0.000000E+00 days
 1162     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1164     Time Step No. = 70 Elapsed Time = 1.000000E-02 days
 1165     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1167     Time Step No. = 71 Elapsed Time = 1.156250E-02 days
 1168     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
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1170    Time Step No. = 72 Elapsed Time = 1.351562E-02 days
1171    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
1173    Time Step No. = 73 Elapsed Time = 1.595703E-02 days
1174    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1176    Time Step No. = 74 Elapsed Time = 1.900879E-02 days
1177    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1179    Time Step No. = 75 Elapsed Time = 2.282349E-02 days
1180    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1182    Time Step No. = 76 Elapsed Time = 2.759186E-02 days
1183    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1185    Time Step No. = 77 Elapsed Time = 3.355232E-02 days
1186    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1188    Time Step No. = 78 Elapsed Time = 4.100290E-02 days
1189    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
1191    Time Step No. = 79 Elapsed Time = 5.031613E-02 days
1192    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1194    Time Step No. = 80 Elapsed Time = 6.195766E-02 days
1195    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1197    Time Step No. = 81 Elapsed Time = 7.650958E-02 days
1198    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1200    Time Step No. = 82 Elapsed Time = 9.469947E-02 days
1201    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1203    Time Step No. = 83 Elapsed Time = 1.174368E-01 days
1204    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1206    Time Step No. = 84 Elapsed Time = 1.458585E-01 days
1207    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1209    Time Step No. = 85 Elapsed Time = 1.813857E-01 days
1210    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1212    Time Step No. = 86 Elapsed Time = 2.257946E-01 days
1213    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1215    Time Step No. = 87 Elapsed Time = 2.813058E-01 days
1216    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1218    Time Step No. = 88 Elapsed Time = 3.506947E-01 days
1219    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1221    Time Step No. = 89 Elapsed Time = 4.374309E-01 days
1222    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
1224    Time Step No. = 90 Elapsed Time = 5.458511E-01 days
1225    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1227    Time Step No. = 91 Elapsed Time = 6.813764E-01 days
1228    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1230    Time Step No. = 92 Elapsed Time = 8.507829E-01 days
1231    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1233    Time Step No. = 93 Elapsed Time = 1.062541E+00 days
1234    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1236    Time Step No. = 94 Elapsed Time = 1.327239E+00 days
1237    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
1239    Time Step No. = 95 Elapsed Time = 1.658111E+00 days
1240    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1242    Time Step No. = 96 Elapsed Time = 2.071702E+00 days
1243    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1245    Time Step No. = 97 Elapsed Time = 2.588689E+00 days
1246    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1248    Time Step No. = 98 Elapsed Time = 3.234924E+00 days
1249    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1251    Time Step No. = 99 Elapsed Time = 4.042718E+00 days
1252    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1254    Time Step No. = 100 Elapsed Time = 5.052460E+00 days
1255    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1257    Time Step No. = 101 Elapsed Time = 6.314637E+00 days
1258    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1260    Time Step No. = 102 Elapsed Time = 7.892359E+00 days
1261    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1263    Time Step No. = 103 Elapsed Time = 9.864511E+00 days
1264    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1266    Time Step No. = 104 Elapsed Time = 1.232970E+01 days
1267    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1269    Time Step No. = 105 Elapsed Time = 1.541119E+01 days
1270    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1272    Time Step No. = 106 Elapsed Time = 1.926305E+01 days
1273    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
1275    Time Step No. = 107 Elapsed Time = 2.407787E+01 days
1276    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1278    Time Step No. = 108 Elapsed Time = 3.009641E+01 days
1279    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
1281    Time Step No. = 109 Elapsed Time = 3.761957E+01 days
1282    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
```

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 1284     Time Step No. = 110 Elapsed Time = 4.702352E+01 days
 1285     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1287     Time Step No. = 111 Elapsed Time = 5.877847E+01 days
 1288     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1290     Time Step No. = 112 Elapsed Time = 7.347215E+01 days
 1291     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1293     Time Step No. = 113 Elapsed Time = 9.183925E+01 days
 1294     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1296     Time Step No. = 114 Elapsed Time = 1.147981E+02 days
 1297     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1299     Time Step No. = 115 Elapsed Time = 1.434967E+02 days
 1300     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1302     Time Step No. = 116 Elapsed Time = 1.793700E+02 days
 1303     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1305     Time Step No. = 117 Elapsed Time = 2.242115E+02 days
 1306     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1308     Time Step No. = 118 Elapsed Time = 2.802634E+02 days
 1309     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1311     Time Step No. = 119 Elapsed Time = 3.503284E+02 days
 1312     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1315     ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1159     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) ASCII
 1161     Time Step No. = 69 Elapsed Time = 0.000000E+00 days
 1162     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.12 ( 0.12 sec) Binary
 1164     Time Step No. = 70 Elapsed Time = 1.000000E-02 days
 1165     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1167     Time Step No. = 71 Elapsed Time = 1.156250E-02 days
 1168     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1170     Time Step No. = 72 Elapsed Time = 1.351562E-02 days
 1171     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1173     Time Step No. = 73 Elapsed Time = 1.595703E-02 days
 1174     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.13 ( 0.13 sec) Binary
 1176     Time Step No. = 74 Elapsed Time = 1.900879E-02 days
 1177     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1179     Time Step No. = 75 Elapsed Time = 2.282349E-02 days
 1180     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1182     Time Step No. = 76 Elapsed Time = 2.759186E-02 days
 1183     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1185     Time Step No. = 77 Elapsed Time = 3.355232E-02 days
 1186     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1188     Time Step No. = 78 Elapsed Time = 4.100290E-02 days
 1189     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.14 ( 0.14 sec) Binary
 1191     Time Step No. = 79 Elapsed Time = 5.031613E-02 days
 1192     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1194     Time Step No. = 80 Elapsed Time = 6.195766E-02 days
 1195     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1197     Time Step No. = 81 Elapsed Time = 7.650958E-02 days
 1198     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1200     Time Step No. = 82 Elapsed Time = 9.469947E-02 days
 1201     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1203     Time Step No. = 83 Elapsed Time = 1.174368E-01 days
 1204     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.15 ( 0.15 sec) Binary
 1206     Time Step No. = 84 Elapsed Time = 1.458585E-01 days
 1207     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1209     Time Step No. = 85 Elapsed Time = 1.813857E-01 days
 1210     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1212     Time Step No. = 86 Elapsed Time = 2.257946E-01 days
 1213     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1215     Time Step No. = 87 Elapsed Time = 2.813058E-01 days
 1216     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1218     Time Step No. = 88 Elapsed Time = 3.506947E-01 days
 1219     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1221     Time Step No. = 89 Elapsed Time = 4.374309E-01 days
 1222     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.16 ( 0.16 sec) Binary
 1224     Time Step No. = 90 Elapsed Time = 5.458511E-01 days
 1225     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1227     Time Step No. = 91 Elapsed Time = 6.813764E-01 days
 1228     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1230     Time Step No. = 92 Elapsed Time = 8.507829E-01 days
 1231     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1233     Time Step No. = 93 Elapsed Time = 1.062541E+00 days
 1234     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
 1236     Time Step No. = 94 Elapsed Time = 1.327239E+00 days
 1237     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.17 ( 0.17 sec) Binary
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 1239     Time Step No. = 95 Elapsed Time = 1.658111E+00 days
 1240     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1242     Time Step No. = 96 Elapsed Time = 2.071702E+00 days
 1243     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1245     Time Step No. = 97 Elapsed Time = 2.588689E+00 days
 1246     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1248     Time Step No. = 98 Elapsed Time = 3.234924E+00 days
 1249     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1251     Time Step No. = 99 Elapsed Time = 4.042718E+00 days
 1252     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1254     Time Step No. = 100 Elapsed Time = 5.052460E+00 days
 1255     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.18 ( 0.18 sec) Binary
 1257     Time Step No. = 101 Elapsed Time = 6.314637E+00 days
 1258     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1260     Time Step No. = 102 Elapsed Time = 7.892359E+00 days
 1261     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1263     Time Step No. = 103 Elapsed Time = 9.864511E+00 days
 1264     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1266     Time Step No. = 104 Elapsed Time = 1.232970E+01 days
 1267     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1269     Time Step No. = 105 Elapsed Time = 1.541119E+01 days
 1270     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1272     Time Step No. = 106 Elapsed Time = 1.926305E+01 days
 1273     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.19 ( 0.19 sec) Binary
 1275     Time Step No. = 107 Elapsed Time = 2.407787E+01 days
 1276     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1278     Time Step No. = 108 Elapsed Time = 3.009641E+01 days
 1279     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1281     Time Step No. = 109 Elapsed Time = 3.761957E+01 days
 1282     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1284     Time Step No. = 110 Elapsed Time = 4.702352E+01 days
 1285     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1287     Time Step No. = 111 Elapsed Time = 5.877847E+01 days
 1288     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.20 ( 0.20 sec) Binary
 1290     Time Step No. = 112 Elapsed Time = 7.347215E+01 days
 1291     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1293     Time Step No. = 113 Elapsed Time = 9.183925E+01 days
 1294     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1296     Time Step No. = 114 Elapsed Time = 1.147981E+02 days
 1297     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1299     Time Step No. = 115 Elapsed Time = 1.434967E+02 days
 1300     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1302     Time Step No. = 116 Elapsed Time = 1.793700E+02 days
 1303     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1305     Time Step No. = 117 Elapsed Time = 2.242115E+02 days
 1306     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.21 ( 0.21 sec) Binary
 1308     Time Step No. = 118 Elapsed Time = 2.802634E+02 days
 1309     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1311     Time Step No. = 119 Elapsed Time = 3.503284E+02 days
 1312     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.22 ( 0.22 sec) Binary
 1315    ********************************************************************************
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************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1324     CPU Time (total for run) = 0.24 sec = 0.00007 hr
 1325    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1324     CPU Time (total for run) = 0.22 sec = 0.00006 hr
 1325    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1520     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) ASCII
 1522     Time Step No. = 120 Elapsed Time = 3.652431E+02 days
 1523     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1525     Time Step No. = 121 Elapsed Time = 4.528242E+02 days
 1526     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1528     Time Step No. = 122 Elapsed Time = 5.623007E+02 days
 1529     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1531     Time Step No. = 123 Elapsed Time = 6.991462E+02 days
 1532     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1534     Time Step No. = 124 Elapsed Time = 8.702031E+02 days
 1535     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1537     Time Step No. = 125 Elapsed Time = 1.084024E+03 days
 1538     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
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 1540     Time Step No. = 126 Elapsed Time = 1.351301E+03 days
 1541     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1543     Time Step No. = 127 Elapsed Time = 1.685396E+03 days
 1544     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1546     Time Step No. = 128 Elapsed Time = 2.103016E+03 days
 1547     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1549     Time Step No. = 129 Elapsed Time = 2.625040E+03 days
 1550     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1552     Time Step No. = 130 Elapsed Time = 3.277571E+03 days
 1553     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1556    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1520     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) ASCII
 1522     Time Step No. = 120 Elapsed Time = 3.652431E+02 days
 1523     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1525     Time Step No. = 121 Elapsed Time = 4.528242E+02 days
 1526     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1528     Time Step No. = 122 Elapsed Time = 5.623007E+02 days
 1529     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1531     Time Step No. = 123 Elapsed Time = 6.991462E+02 days
 1532     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1534     Time Step No. = 124 Elapsed Time = 8.702031E+02 days
 1535     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.23 ( 0.23 sec) Binary
 1537     Time Step No. = 125 Elapsed Time = 1.084024E+03 days
 1538     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1540     Time Step No. = 126 Elapsed Time = 1.351301E+03 days
 1541     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1543     Time Step No. = 127 Elapsed Time = 1.685396E+03 days
 1544     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1546     Time Step No. = 128 Elapsed Time = 2.103016E+03 days
 1547     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1549     Time Step No. = 129 Elapsed Time = 2.625040E+03 days
 1550     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.24 ( 0.24 sec) Binary
 1552     Time Step No. = 130 Elapsed Time = 3.277571E+03 days
 1553     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1556    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1564     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1565     CPU Time (total for run) = 0.25 sec = 0.00007 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1564     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1565     CPU Time (total for run) = 0.25 sec = 0.00007 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1761     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) ASCII
 1763     Time Step No. = 131 Elapsed Time = 3.652431E+03 days
 1764     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1766     Time Step No. = 132 Elapsed Time = 4.468094E+03 days
 1767     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1769     Time Step No. = 133 Elapsed Time = 5.487672E+03 days
 1770     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1772     Time Step No. = 134 Elapsed Time = 6.762146E+03 days
 1773     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1775     Time Step No. = 135 Elapsed Time = 8.355238E+03 days
 1776     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1778     Time Step No. = 136 Elapsed Time = 1.034660E+04 days
 1779     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1781     Time Step No. = 137 Elapsed Time = 1.234660E+04 days
 1782     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1784     Time Step No. = 138 Elapsed Time = 1.434660E+04 days
 1785     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1787     Time Step No. = 139 Elapsed Time = 1.634660E+04 days
 1788     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1790     Time Step No. = 140 Elapsed Time = 1.834660E+04 days
 1791     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1793     Time Step No. = 141 Elapsed Time = 2.034660E+04 days
 1794     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1796     Time Step No. = 142 Elapsed Time = 2.234660E+04 days
 1797     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1799     Time Step No. = 143 Elapsed Time = 2.434660E+04 days
 1800     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
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 1802     Time Step No. = 144 Elapsed Time = 2.634660E+04 days
 1803     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1805     Time Step No. = 145 Elapsed Time = 2.834660E+04 days
 1806     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1808     Time Step No. = 146 Elapsed Time = 3.034660E+04 days
 1809     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1811     Time Step No. = 147 Elapsed Time = 3.234660E+04 days
 1812     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1814     Time Step No. = 148 Elapsed Time = 3.434660E+04 days
 1815     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1817     Time Step No. = 149 Elapsed Time = 3.534660E+04 days
 1818     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1821    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1761     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) ASCII
 1763     Time Step No. = 131 Elapsed Time = 3.652431E+03 days
 1764     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1766     Time Step No. = 132 Elapsed Time = 4.468094E+03 days
 1767     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1769     Time Step No. = 133 Elapsed Time = 5.487672E+03 days
 1770     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.25 ( 0.25 sec) Binary
 1772     Time Step No. = 134 Elapsed Time = 6.762146E+03 days
 1773     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1775     Time Step No. = 135 Elapsed Time = 8.355238E+03 days
 1776     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1778     Time Step No. = 136 Elapsed Time = 1.034660E+04 days
 1779     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.26 ( 0.26 sec) Binary
 1781     Time Step No. = 137 Elapsed Time = 1.234660E+04 days
 1782     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1784     Time Step No. = 138 Elapsed Time = 1.434660E+04 days
 1785     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1787     Time Step No. = 139 Elapsed Time = 1.634660E+04 days
 1788     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.27 ( 0.27 sec) Binary
 1790     Time Step No. = 140 Elapsed Time = 1.834660E+04 days
 1791     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1793     Time Step No. = 141 Elapsed Time = 2.034660E+04 days
 1794     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1796     Time Step No. = 142 Elapsed Time = 2.234660E+04 days
 1797     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.28 ( 0.28 sec) Binary
 1799     Time Step No. = 143 Elapsed Time = 2.434660E+04 days
 1800     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1802     Time Step No. = 144 Elapsed Time = 2.634660E+04 days
 1803     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1805     Time Step No. = 145 Elapsed Time = 2.834660E+04 days
 1806     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.29 ( 0.29 sec) Binary
 1808     Time Step No. = 146 Elapsed Time = 3.034660E+04 days
 1809     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1811     Time Step No. = 147 Elapsed Time = 3.234660E+04 days
 1812     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.30 ( 0.30 sec) Binary
 1814     Time Step No. = 148 Elapsed Time = 3.434660E+04 days
 1815     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1817     Time Step No. = 149 Elapsed Time = 3.534660E+04 days
 1818     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 1821    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 1829     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 1830     CPU Time (total for run) = 0.31 sec = 0.00009 hr
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 1829     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 1830     CPU Time (total for run) = 0.31 sec = 0.00009 hr
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 2026     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) ASCII
 2028     Time Step No. = 150 Elapsed Time = 3.652431E+04 days
 2029     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 2031     Time Step No. = 151 Elapsed Time = 3.777431E+04 days
 2032     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2034     Time Step No. = 152 Elapsed Time = 3.816493E+04 days
 2035     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2037     Time Step No. = 153 Elapsed Time = 3.865321E+04 days
 2038     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
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2040    Time Step No. = 154 Elapsed Time = 3.926356E+04 days
2041    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
2043    Time Step No. = 155 Elapsed Time = 4.002650E+04 days
2044    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
2046    Time Step No. = 156 Elapsed Time = 4.098018E+04 days
2047    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2049    Time Step No. = 157 Elapsed Time = 4.217227E+04 days
2050    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2052    Time Step No. = 158 Elapsed Time = 4.366239E+04 days
2053    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
2055    Time Step No. = 159 Elapsed Time = 4.552503E+04 days
2056    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
2058    Time Step No. = 160 Elapsed Time = 4.752503E+04 days
2059    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
2061    Time Step No. = 161 Elapsed Time = 4.952503E+04 days
2062    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
2064    Time Step No. = 162 Elapsed Time = 5.152503E+04 days
2065    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
2067    Time Step No. = 163 Elapsed Time = 5.352503E+04 days
2068    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
2070    Time Step No. = 164 Elapsed Time = 5.552503E+04 days
2071    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
2073    Time Step No. = 165 Elapsed Time = 5.752503E+04 days
2074    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
2076    Time Step No. = 166 Elapsed Time = 5.952503E+04 days
2077    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2079    Time Step No. = 167 Elapsed Time = 6.152503E+04 days
2080    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2082    Time Step No. = 168 Elapsed Time = 6.352503E+04 days
2083    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
2085    Time Step No. = 169 Elapsed Time = 6.552503E+04 days
2086    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2088    Time Step No. = 170 Elapsed Time = 6.752503E+04 days
2089    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2091    Time Step No. = 171 Elapsed Time = 6.952503E+04 days
2092    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2094    Time Step No. = 172 Elapsed Time = 7.152503E+04 days
2095    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2097    Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2100    Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2103    Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2106    Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2109    Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2112    Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2115    Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2118    Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2121    Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2124    Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2127    Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2130    Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2133    Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2136    Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2139    Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2142    Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2145    Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2148    Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2151    Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
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2154    Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2157    Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2160    Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2163    Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2166    Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2169    Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2172    Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2175    Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2178    Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2181    Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2184    Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2187    Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2190    Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2193    Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2196    Time Step No. = 206 Elapsed Time = 1.395250E+05 days
2197    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2199    Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2202    Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2205    Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2208    Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2211    Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2214    Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2217    Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2220    Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2223    Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2226    Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2229    Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2232    Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2235    Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2238    Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2241    Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2244    Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2247    Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2250    Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2253    Time Step No. = 225 Elapsed Time = 1.775250E+05 days
2254    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2256    Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2259    Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2262    Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2265    Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266    Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
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2268 Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2271 Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2274 Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2277 Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2280 Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2283 Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2286 Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2289 Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2292 Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2295 Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2298 Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2301 Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2304 Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2307 Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2310 Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2313 Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2316 Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2319 Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2322 Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2325 Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2328 Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2331 Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2334 Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2337 Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2340 Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2343 Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2346 Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2349 Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2352 Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2355 Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2358 Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2361 Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2364 Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2367 Time Step No. = 263 Elapsed Time = 2.535250E+05 days
2368 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2370 Time Step No. = 264 Elapsed Time = 2.555250E+05 days
2371 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2373 Time Step No. = 265 Elapsed Time = 2.575250E+05 days
2374 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2376 Time Step No. = 266 Elapsed Time = 2.595250E+05 days
2377 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2379 Time Step No. = 267 Elapsed Time = 2.615250E+05 days
2380 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
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2382 Time Step No. = 268 Elapsed Time = 2.635250E+05 days
2383 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2385 Time Step No. = 269 Elapsed Time = 2.655250E+05 days
2386 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2388 Time Step No. = 270 Elapsed Time = 2.675250E+05 days
2389 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2391 Time Step No. = 271 Elapsed Time = 2.695250E+05 days
2392 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2394 Time Step No. = 272 Elapsed Time = 2.715250E+05 days
2395 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2397 Time Step No. = 273 Elapsed Time = 2.735250E+05 days
2398 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2400 Time Step No. = 274 Elapsed Time = 2.755250E+05 days
2401 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2403 Time Step No. = 275 Elapsed Time = 2.775250E+05 days
2404 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2406 Time Step No. = 276 Elapsed Time = 2.795250E+05 days
2407 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2409 Time Step No. = 277 Elapsed Time = 2.815250E+05 days
2410 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2412 Time Step No. = 278 Elapsed Time = 2.835250E+05 days
2413 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2415 Time Step No. = 279 Elapsed Time = 2.855250E+05 days
2416 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2418 Time Step No. = 280 Elapsed Time = 2.875250E+05 days
2419 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2421 Time Step No. = 281 Elapsed Time = 2.895250E+05 days
2422 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2424 Time Step No. = 282 Elapsed Time = 2.915250E+05 days
2425 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2427 Time Step No. = 283 Elapsed Time = 2.935250E+05 days
2428 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2430 Time Step No. = 284 Elapsed Time = 2.955250E+05 days
2431 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2433 Time Step No. = 285 Elapsed Time = 2.975250E+05 days
2434 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2436 Time Step No. = 286 Elapsed Time = 2.995250E+05 days
2437 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2439 Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2442 Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2445 Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2448 Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2451 Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2454 Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2457 Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2460 Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2463 Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2466 Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2469 Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2472 Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2475 Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2478 Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2481 Time Step No. = 301 Elapsed Time = 3.295250E+05 days
2482 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2484 Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2487 Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2490 Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2493 Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494 Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
```

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 2496     Time Step No. = 306 Elapsed Time = 3.395250E+05 days
 2497     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2499     Time Step No. = 307 Elapsed Time = 3.415250E+05 days
 2500     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2502     Time Step No. = 308 Elapsed Time = 3.435250E+05 days
 2503     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2505     Time Step No. = 309 Elapsed Time = 3.455250E+05 days
 2506     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2508     Time Step No. = 310 Elapsed Time = 3.475250E+05 days
 2509     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2511     Time Step No. = 311 Elapsed Time = 3.495250E+05 days
 2512     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2514     Time Step No. = 312 Elapsed Time = 3.515250E+05 days
 2515     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2517     Time Step No. = 313 Elapsed Time = 3.535250E+05 days
 2518     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
 2520     Time Step No. = 314 Elapsed Time = 3.555250E+05 days
 2521     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
 2523     Time Step No. = 315 Elapsed Time = 3.575250E+05 days
 2524     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
 2526     Time Step No. = 316 Elapsed Time = 3.595250E+05 days
 2527     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
 2529     Time Step No. = 317 Elapsed Time = 3.615250E+05 days
 2530     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
 2532     Time Step No. = 318 Elapsed Time = 3.635250E+05 days
 2533     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
 2536    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2026     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) ASCII
 2028     Time Step No. = 150 Elapsed Time = 3.652431E+04 days
 2029     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 2031     Time Step No. = 151 Elapsed Time = 3.777431E+04 days
 2032     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.31 ( 0.31 sec) Binary
 2034     Time Step No. = 152 Elapsed Time = 3.816493E+04 days
 2035     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2037     Time Step No. = 153 Elapsed Time = 3.865321E+04 days
 2038     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.32 ( 0.32 sec) Binary
 2040     Time Step No. = 154 Elapsed Time = 3.926356E+04 days
 2041     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2043     Time Step No. = 155 Elapsed Time = 4.002650E+04 days
 2044     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2046     Time Step No. = 156 Elapsed Time = 4.098018E+04 days
 2047     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.33 ( 0.33 sec) Binary
 2049     Time Step No. = 157 Elapsed Time = 4.217227E+04 days
 2050     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2052     Time Step No. = 158 Elapsed Time = 4.366239E+04 days
 2053     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2055     Time Step No. = 159 Elapsed Time = 4.552503E+04 days
 2056     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.34 ( 0.34 sec) Binary
 2058     Time Step No. = 160 Elapsed Time = 4.752503E+04 days
 2059     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2061     Time Step No. = 161 Elapsed Time = 4.952503E+04 days
 2062     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2064     Time Step No. = 162 Elapsed Time = 5.152503E+04 days
 2065     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.35 ( 0.35 sec) Binary
 2067     Time Step No. = 163 Elapsed Time = 5.352503E+04 days
 2068     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 2070     Time Step No. = 164 Elapsed Time = 5.552503E+04 days
 2071     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.36 ( 0.36 sec) Binary
 2073     Time Step No. = 165 Elapsed Time = 5.752503E+04 days
 2074     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2076     Time Step No. = 166 Elapsed Time = 5.952503E+04 days
 2077     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2079     Time Step No. = 167 Elapsed Time = 6.152503E+04 days
 2080     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.37 ( 0.37 sec) Binary
 2082     Time Step No. = 168 Elapsed Time = 6.352503E+04 days
 2083     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
 2085     Time Step No. = 169 Elapsed Time = 6.552503E+04 days
 2086     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
 2088     Time Step No. = 170 Elapsed Time = 6.752503E+04 days
 2089     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.38 ( 0.38 sec) Binary
 2091     Time Step No. = 171 Elapsed Time = 6.952503E+04 days
 2092     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
 2094     Time Step No. = 172 Elapsed Time = 7.152503E+04 days
 2095     Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
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2097 Time Step No. = 173 Elapsed Time = 7.352503E+04 days
2098 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.39 ( 0.39 sec) Binary
2100 Time Step No. = 174 Elapsed Time = 7.552503E+04 days
2101 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2103 Time Step No. = 175 Elapsed Time = 7.752503E+04 days
2104 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2106 Time Step No. = 176 Elapsed Time = 7.952503E+04 days
2107 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.40 ( 0.40 sec) Binary
2109 Time Step No. = 177 Elapsed Time = 8.152503E+04 days
2110 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2112 Time Step No. = 178 Elapsed Time = 8.352503E+04 days
2113 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.41 ( 0.41 sec) Binary
2115 Time Step No. = 179 Elapsed Time = 8.552503E+04 days
2116 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2118 Time Step No. = 180 Elapsed Time = 8.752503E+04 days
2119 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2121 Time Step No. = 181 Elapsed Time = 8.952503E+04 days
2122 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.42 ( 0.42 sec) Binary
2124 Time Step No. = 182 Elapsed Time = 9.152503E+04 days
2125 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2127 Time Step No. = 183 Elapsed Time = 9.352503E+04 days
2128 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2130 Time Step No. = 184 Elapsed Time = 9.552503E+04 days
2131 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.43 ( 0.43 sec) Binary
2133 Time Step No. = 185 Elapsed Time = 9.752503E+04 days
2134 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2136 Time Step No. = 186 Elapsed Time = 9.952503E+04 days
2137 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2139 Time Step No. = 187 Elapsed Time = 1.015250E+05 days
2140 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.44 ( 0.44 sec) Binary
2142 Time Step No. = 188 Elapsed Time = 1.035250E+05 days
2143 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2145 Time Step No. = 189 Elapsed Time = 1.055250E+05 days
2146 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2148 Time Step No. = 190 Elapsed Time = 1.075250E+05 days
2149 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.45 ( 0.45 sec) Binary
2151 Time Step No. = 191 Elapsed Time = 1.095250E+05 days
2152 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2154 Time Step No. = 192 Elapsed Time = 1.115250E+05 days
2155 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2157 Time Step No. = 193 Elapsed Time = 1.135250E+05 days
2158 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.46 ( 0.46 sec) Binary
2160 Time Step No. = 194 Elapsed Time = 1.155250E+05 days
2161 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2163 Time Step No. = 195 Elapsed Time = 1.175250E+05 days
2164 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2166 Time Step No. = 196 Elapsed Time = 1.195250E+05 days
2167 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.47 ( 0.47 sec) Binary
2169 Time Step No. = 197 Elapsed Time = 1.215250E+05 days
2170 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2172 Time Step No. = 198 Elapsed Time = 1.235250E+05 days
2173 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2175 Time Step No. = 199 Elapsed Time = 1.255250E+05 days
2176 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.48 ( 0.48 sec) Binary
2178 Time Step No. = 200 Elapsed Time = 1.275250E+05 days
2179 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2181 Time Step No. = 201 Elapsed Time = 1.295250E+05 days
2182 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2184 Time Step No. = 202 Elapsed Time = 1.315250E+05 days
2185 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2187 Time Step No. = 203 Elapsed Time = 1.335250E+05 days
2188 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2190 Time Step No. = 204 Elapsed Time = 1.355250E+05 days
2191 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.49 ( 0.49 sec) Binary
2193 Time Step No. = 205 Elapsed Time = 1.375250E+05 days
2194 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2196 Time Step No. = 206 Elapsed Time = 1.395250E+05 days
2197 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2199 Time Step No. = 207 Elapsed Time = 1.415250E+05 days
2200 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2202 Time Step No. = 208 Elapsed Time = 1.435250E+05 days
2203 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.50 ( 0.50 sec) Binary
2205 Time Step No. = 209 Elapsed Time = 1.455250E+05 days
2206 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2208 Time Step No. = 210 Elapsed Time = 1.475250E+05 days
2209 Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
```

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2211    Time Step No. = 211 Elapsed Time = 1.495250E+05 days
2212    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.51 ( 0.51 sec) Binary
2214    Time Step No. = 212 Elapsed Time = 1.515250E+05 days
2215    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2217    Time Step No. = 213 Elapsed Time = 1.535250E+05 days
2218    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2220    Time Step No. = 214 Elapsed Time = 1.555250E+05 days
2221    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.52 ( 0.52 sec) Binary
2223    Time Step No. = 215 Elapsed Time = 1.575250E+05 days
2224    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2226    Time Step No. = 216 Elapsed Time = 1.595250E+05 days
2227    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2229    Time Step No. = 217 Elapsed Time = 1.615250E+05 days
2230    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.53 ( 0.53 sec) Binary
2232    Time Step No. = 218 Elapsed Time = 1.635250E+05 days
2233    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2235    Time Step No. = 219 Elapsed Time = 1.655250E+05 days
2236    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2238    Time Step No. = 220 Elapsed Time = 1.675250E+05 days
2239    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2241    Time Step No. = 221 Elapsed Time = 1.695250E+05 days
2242    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2244    Time Step No. = 222 Elapsed Time = 1.715250E+05 days
2245    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2247    Time Step No. = 223 Elapsed Time = 1.735250E+05 days
2248    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2250    Time Step No. = 224 Elapsed Time = 1.755250E+05 days
2251    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.54 ( 0.54 sec) Binary
2253    Time Step No. = 225 Elapsed Time = 1.775250E+05 days
2254    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2256    Time Step No. = 226 Elapsed Time = 1.795250E+05 days
2257    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.55 ( 0.55 sec) Binary
2259    Time Step No. = 227 Elapsed Time = 1.815250E+05 days
2260    Date: 02/14/07 Time: 16:02:41 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2262    Time Step No. = 228 Elapsed Time = 1.835250E+05 days
2263    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2265    Time Step No. = 229 Elapsed Time = 1.855250E+05 days
2266    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.56 ( 0.56 sec) Binary
2268    Time Step No. = 230 Elapsed Time = 1.875250E+05 days
2269    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2271    Time Step No. = 231 Elapsed Time = 1.895250E+05 days
2272    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2274    Time Step No. = 232 Elapsed Time = 1.915250E+05 days
2275    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.57 ( 0.57 sec) Binary
2277    Time Step No. = 233 Elapsed Time = 1.935250E+05 days
2278    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2280    Time Step No. = 234 Elapsed Time = 1.955250E+05 days
2281    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2283    Time Step No. = 235 Elapsed Time = 1.975250E+05 days
2284    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2286    Time Step No. = 236 Elapsed Time = 1.995250E+05 days
2287    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.58 ( 0.58 sec) Binary
2289    Time Step No. = 237 Elapsed Time = 2.015250E+05 days
2290    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2292    Time Step No. = 238 Elapsed Time = 2.035250E+05 days
2293    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.59 ( 0.59 sec) Binary
2295    Time Step No. = 239 Elapsed Time = 2.055250E+05 days
2296    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2298    Time Step No. = 240 Elapsed Time = 2.075250E+05 days
2299    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2301    Time Step No. = 241 Elapsed Time = 2.095250E+05 days
2302    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.60 ( 0.60 sec) Binary
2304    Time Step No. = 242 Elapsed Time = 2.115250E+05 days
2305    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2307    Time Step No. = 243 Elapsed Time = 2.135250E+05 days
2308    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2310    Time Step No. = 244 Elapsed Time = 2.155250E+05 days
2311    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.61 ( 0.61 sec) Binary
2313    Time Step No. = 245 Elapsed Time = 2.175250E+05 days
2314    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2316    Time Step No. = 246 Elapsed Time = 2.195250E+05 days
2317    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2319    Time Step No. = 247 Elapsed Time = 2.215250E+05 days
2320    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.62 ( 0.62 sec) Binary
2322    Time Step No. = 248 Elapsed Time = 2.235250E+05 days
2323    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
```

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2325    Time Step No. = 249 Elapsed Time = 2.255250E+05 days
2326    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2328    Time Step No. = 250 Elapsed Time = 2.275250E+05 days
2329    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.63 ( 0.63 sec) Binary
2331    Time Step No. = 251 Elapsed Time = 2.295250E+05 days
2332    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2334    Time Step No. = 252 Elapsed Time = 2.315250E+05 days
2335    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2337    Time Step No. = 253 Elapsed Time = 2.335250E+05 days
2338    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2340    Time Step No. = 254 Elapsed Time = 2.355250E+05 days
2341    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2343    Time Step No. = 255 Elapsed Time = 2.375250E+05 days
2344    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2346    Time Step No. = 256 Elapsed Time = 2.395250E+05 days
2347    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2349    Time Step No. = 257 Elapsed Time = 2.415250E+05 days
2350    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.64 ( 0.64 sec) Binary
2352    Time Step No. = 258 Elapsed Time = 2.435250E+05 days
2353    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2355    Time Step No. = 259 Elapsed Time = 2.455250E+05 days
2356    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2358    Time Step No. = 260 Elapsed Time = 2.475250E+05 days
2359    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.65 ( 0.65 sec) Binary
2361    Time Step No. = 261 Elapsed Time = 2.495250E+05 days
2362    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2364    Time Step No. = 262 Elapsed Time = 2.515250E+05 days
2365    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2367    Time Step No. = 263 Elapsed Time = 2.535250E+05 days
2368    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2370    Time Step No. = 264 Elapsed Time = 2.555250E+05 days
2371    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.66 ( 0.66 sec) Binary
2373    Time Step No. = 265 Elapsed Time = 2.575250E+05 days
2374    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2376    Time Step No. = 266 Elapsed Time = 2.595250E+05 days
2377    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2379    Time Step No. = 267 Elapsed Time = 2.615250E+05 days
2380    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2382    Time Step No. = 268 Elapsed Time = 2.635250E+05 days
2383    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2385    Time Step No. = 269 Elapsed Time = 2.655250E+05 days
2386    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.67 ( 0.67 sec) Binary
2388    Time Step No. = 270 Elapsed Time = 2.675250E+05 days
2389    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2391    Time Step No. = 271 Elapsed Time = 2.695250E+05 days
2392    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2394    Time Step No. = 272 Elapsed Time = 2.715250E+05 days
2395    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2397    Time Step No. = 273 Elapsed Time = 2.735250E+05 days
2398    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2400    Time Step No. = 274 Elapsed Time = 2.755250E+05 days
2401    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2403    Time Step No. = 275 Elapsed Time = 2.775250E+05 days
2404    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.68 ( 0.68 sec) Binary
2406    Time Step No. = 276 Elapsed Time = 2.795250E+05 days
2407    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2409    Time Step No. = 277 Elapsed Time = 2.815250E+05 days
2410    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2412    Time Step No. = 278 Elapsed Time = 2.835250E+05 days
2413    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2415    Time Step No. = 279 Elapsed Time = 2.855250E+05 days
2416    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2418    Time Step No. = 280 Elapsed Time = 2.875250E+05 days
2419    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.69 ( 0.69 sec) Binary
2421    Time Step No. = 281 Elapsed Time = 2.895250E+05 days
2422    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2424    Time Step No. = 282 Elapsed Time = 2.915250E+05 days
2425    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2427    Time Step No. = 283 Elapsed Time = 2.935250E+05 days
2428    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2430    Time Step No. = 284 Elapsed Time = 2.955250E+05 days
2431    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2433    Time Step No. = 285 Elapsed Time = 2.975250E+05 days
2434    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.70 ( 0.70 sec) Binary
2436    Time Step No. = 286 Elapsed Time = 2.995250E+05 days
2437    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
```

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2439   Time Step No. = 287 Elapsed Time = 3.015250E+05 days
2440   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2442   Time Step No. = 288 Elapsed Time = 3.035250E+05 days
2443   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2445   Time Step No. = 289 Elapsed Time = 3.055250E+05 days
2446   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2448   Time Step No. = 290 Elapsed Time = 3.075250E+05 days
2449   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.71 ( 0.71 sec) Binary
2451   Time Step No. = 291 Elapsed Time = 3.095250E+05 days
2452   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2454   Time Step No. = 292 Elapsed Time = 3.115250E+05 days
2455   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2457   Time Step No. = 293 Elapsed Time = 3.135250E+05 days
2458   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2460   Time Step No. = 294 Elapsed Time = 3.155250E+05 days
2461   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2463   Time Step No. = 295 Elapsed Time = 3.175250E+05 days
2464   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2466   Time Step No. = 296 Elapsed Time = 3.195250E+05 days
2467   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.72 ( 0.72 sec) Binary
2469   Time Step No. = 297 Elapsed Time = 3.215250E+05 days
2470   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2472   Time Step No. = 298 Elapsed Time = 3.235250E+05 days
2473   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2475   Time Step No. = 299 Elapsed Time = 3.255250E+05 days
2476   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2478   Time Step No. = 300 Elapsed Time = 3.275250E+05 days
2479   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2481   Time Step No. = 301 Elapsed Time = 3.295250E+05 days
2482   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2484   Time Step No. = 302 Elapsed Time = 3.315250E+05 days
2485   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.73 ( 0.73 sec) Binary
2487   Time Step No. = 303 Elapsed Time = 3.335250E+05 days
2488   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2490   Time Step No. = 304 Elapsed Time = 3.355250E+05 days
2491   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2493   Time Step No. = 305 Elapsed Time = 3.375250E+05 days
2494   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2496   Time Step No. = 306 Elapsed Time = 3.395250E+05 days
2497   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2499   Time Step No. = 307 Elapsed Time = 3.415250E+05 days
2500   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
2502   Time Step No. = 308 Elapsed Time = 3.435250E+05 days
2503   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2505   Time Step No. = 309 Elapsed Time = 3.455250E+05 days
2506   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2508   Time Step No. = 310 Elapsed Time = 3.475250E+05 days
2509   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2511   Time Step No. = 311 Elapsed Time = 3.495250E+05 days
2512   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2514   Time Step No. = 312 Elapsed Time = 3.515250E+05 days
2515   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
2517   Time Step No. = 313 Elapsed Time = 3.535250E+05 days
2518   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2520   Time Step No. = 314 Elapsed Time = 3.555250E+05 days
2521   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2523   Time Step No. = 315 Elapsed Time = 3.575250E+05 days
2524   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2526   Time Step No. = 316 Elapsed Time = 3.595250E+05 days
2527   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2529   Time Step No. = 317 Elapsed Time = 3.615250E+05 days
2530   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2532   Time Step No. = 318 Elapsed Time = 3.635250E+05 days
2533   Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
2536   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
2544   CPU Time (this time step) = 0.00 sec = 0.00000 hr
2545   CPU Time (total for run) = 0.73 sec = 0.00020 hr
2546   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
2544   CPU Time (this time step) = 0.01 sec = 0.00000 hr
2545   CPU Time (total for run) = 0.77 sec = 0.00021 hr
2546   ********************************************************************************
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************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 2741     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) ASCII
 2743     Time Step No. = 319 Elapsed Time = 3.652431E+05 days
 2744     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2746     Time Step No. = 320 Elapsed Time = 3.672431E+05 days
 2747     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2749     Time Step No. = 321 Elapsed Time = 3.692431E+05 days
 2750     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2752     Time Step No. = 322 Elapsed Time = 3.712431E+05 days
 2753     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2755     Time Step No. = 323 Elapsed Time = 3.732431E+05 days
 2756     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2758     Time Step No. = 324 Elapsed Time = 3.752431E+05 days
 2759     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2761     Time Step No. = 325 Elapsed Time = 3.772431E+05 days
 2762     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2764     Time Step No. = 326 Elapsed Time = 3.792431E+05 days
 2765     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2767     Time Step No. = 327 Elapsed Time = 3.812431E+05 days
 2768     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2770     Time Step No. = 328 Elapsed Time = 3.832431E+05 days
 2771     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.74 ( 0.74 sec) Binary
 2773     Time Step No. = 329 Elapsed Time = 3.852431E+05 days
 2774     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2776     Time Step No. = 330 Elapsed Time = 3.872431E+05 days
 2777     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2779     Time Step No. = 331 Elapsed Time = 3.892431E+05 days
 2780     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2782     Time Step No. = 332 Elapsed Time = 3.912431E+05 days
 2783     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2785     Time Step No. = 333 Elapsed Time = 3.932431E+05 days
 2786     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2788     Time Step No. = 334 Elapsed Time = 3.952431E+05 days
 2789     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.75 ( 0.75 sec) Binary
 2791     Time Step No. = 335 Elapsed Time = 3.972431E+05 days
 2792     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
 2794     Time Step No. = 336 Elapsed Time = 3.992431E+05 days
 2795     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
 2797     Time Step No. = 337 Elapsed Time = 4.012431E+05 days
 2798     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
 2800     Time Step No. = 338 Elapsed Time = 4.032431E+05 days
 2801     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
 2803     Time Step No. = 339 Elapsed Time = 4.052431E+05 days
 2804     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.76 ( 0.76 sec) Binary
 2806     Time Step No. = 340 Elapsed Time = 4.072431E+05 days
 2807     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2809     Time Step No. = 341 Elapsed Time = 4.092431E+05 days
 2810     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2812     Time Step No. = 342 Elapsed Time = 4.112431E+05 days
 2813     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2815     Time Step No. = 343 Elapsed Time = 4.132431E+05 days
 2816     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2818     Time Step No. = 344 Elapsed Time = 4.152431E+05 days
 2819     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2821     Time Step No. = 345 Elapsed Time = 4.172431E+05 days
 2822     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2824     Time Step No. = 346 Elapsed Time = 4.192431E+05 days
 2825     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2827     Time Step No. = 347 Elapsed Time = 4.212431E+05 days
 2828     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2830     Time Step No. = 348 Elapsed Time = 4.232431E+05 days
 2831     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2833     Time Step No. = 349 Elapsed Time = 4.252431E+05 days
 2834     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2836     Time Step No. = 350 Elapsed Time = 4.272431E+05 days
 2837     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2839     Time Step No. = 351 Elapsed Time = 4.292431E+05 days
 2840     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2842     Time Step No. = 352 Elapsed Time = 4.312431E+05 days
 2843     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2845     Time Step No. = 353 Elapsed Time = 4.332431E+05 days
 2846     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2848     Time Step No. = 354 Elapsed Time = 4.352431E+05 days
 2849     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
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 2851     Time Step No. = 355 Elapsed Time = 4.372431E+05 days
 2852     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2854     Time Step No. = 356 Elapsed Time = 4.392431E+05 days
 2855     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2857     Time Step No. = 357 Elapsed Time = 4.412431E+05 days
 2858     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2860     Time Step No. = 358 Elapsed Time = 4.432431E+05 days
 2861     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2863     Time Step No. = 359 Elapsed Time = 4.452431E+05 days
 2864     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2866     Time Step No. = 360 Elapsed Time = 4.472431E+05 days
 2867     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2869     Time Step No. = 361 Elapsed Time = 4.492431E+05 days
 2870     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2872     Time Step No. = 362 Elapsed Time = 4.512431E+05 days
 2873     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2875     Time Step No. = 363 Elapsed Time = 4.532431E+05 days
 2876     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2878     Time Step No. = 364 Elapsed Time = 4.552431E+05 days
 2879     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2882    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2741     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) ASCII
 2743     Time Step No. = 319 Elapsed Time = 3.652431E+05 days
 2744     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2746     Time Step No. = 320 Elapsed Time = 3.672431E+05 days
 2747     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2749     Time Step No. = 321 Elapsed Time = 3.692431E+05 days
 2750     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2752     Time Step No. = 322 Elapsed Time = 3.712431E+05 days
 2753     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2755     Time Step No. = 323 Elapsed Time = 3.732431E+05 days
 2756     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2758     Time Step No. = 324 Elapsed Time = 3.752431E+05 days
 2759     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2761     Time Step No. = 325 Elapsed Time = 3.772431E+05 days
 2762     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2764     Time Step No. = 326 Elapsed Time = 3.792431E+05 days
 2765     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.77 ( 0.77 sec) Binary
 2767     Time Step No. = 327 Elapsed Time = 3.812431E+05 days
 2768     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2770     Time Step No. = 328 Elapsed Time = 3.832431E+05 days
 2771     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2773     Time Step No. = 329 Elapsed Time = 3.852431E+05 days
 2774     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2776     Time Step No. = 330 Elapsed Time = 3.872431E+05 days
 2777     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2779     Time Step No. = 331 Elapsed Time = 3.892431E+05 days
 2780     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2782     Time Step No. = 332 Elapsed Time = 3.912431E+05 days
 2783     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.78 ( 0.78 sec) Binary
 2785     Time Step No. = 333 Elapsed Time = 3.932431E+05 days
 2786     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2788     Time Step No. = 334 Elapsed Time = 3.952431E+05 days
 2789     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2791     Time Step No. = 335 Elapsed Time = 3.972431E+05 days
 2792     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2794     Time Step No. = 336 Elapsed Time = 3.992431E+05 days
 2795     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2797     Time Step No. = 337 Elapsed Time = 4.012431E+05 days
 2798     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 2800     Time Step No. = 338 Elapsed Time = 4.032431E+05 days
 2801     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2803     Time Step No. = 339 Elapsed Time = 4.052431E+05 days
 2804     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2806     Time Step No. = 340 Elapsed Time = 4.072431E+05 days
 2807     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2809     Time Step No. = 341 Elapsed Time = 4.092431E+05 days
 2810     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2812     Time Step No. = 342 Elapsed Time = 4.112431E+05 days
 2813     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 2815     Time Step No. = 343 Elapsed Time = 4.132431E+05 days
 2816     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2818     Time Step No. = 344 Elapsed Time = 4.152431E+05 days
 2819     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
```

```
 2821     Time Step No. = 345 Elapsed Time = 4.172431E+05 days
 2822     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2824     Time Step No. = 346 Elapsed Time = 4.192431E+05 days
 2825     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2827     Time Step No. = 347 Elapsed Time = 4.212431E+05 days
 2828     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2830     Time Step No. = 348 Elapsed Time = 4.232431E+05 days
 2831     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 2833     Time Step No. = 349 Elapsed Time = 4.252431E+05 days
 2834     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2836     Time Step No. = 350 Elapsed Time = 4.272431E+05 days
 2837     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2839     Time Step No. = 351 Elapsed Time = 4.292431E+05 days
 2840     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2842     Time Step No. = 352 Elapsed Time = 4.312431E+05 days
 2843     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2845     Time Step No. = 353 Elapsed Time = 4.332431E+05 days
 2846     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2848     Time Step No. = 354 Elapsed Time = 4.352431E+05 days
 2849     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 2851     Time Step No. = 355 Elapsed Time = 4.372431E+05 days
 2852     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2854     Time Step No. = 356 Elapsed Time = 4.392431E+05 days
 2855     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2857     Time Step No. = 357 Elapsed Time = 4.412431E+05 days
 2858     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2860     Time Step No. = 358 Elapsed Time = 4.432431E+05 days
 2861     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2863     Time Step No. = 359 Elapsed Time = 4.452431E+05 days
 2864     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2866     Time Step No. = 360 Elapsed Time = 4.472431E+05 days
 2867     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2869     Time Step No. = 361 Elapsed Time = 4.492431E+05 days
 2870     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2872     Time Step No. = 362 Elapsed Time = 4.512431E+05 days
 2873     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2875     Time Step No. = 363 Elapsed Time = 4.532431E+05 days
 2876     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2878     Time Step No. = 364 Elapsed Time = 4.552431E+05 days
 2879     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 2882    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 2891     CPU Time (total for run) = 0.79 sec = 0.00022 hr
 2892    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 2891     CPU Time (total for run) = 0.83 sec = 0.00023 hr
 2892    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3087     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) ASCII
 3089     Time Step No. = 365 Elapsed Time = 4.565625E+05 days
 3090     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 3092     Time Step No. = 366 Elapsed Time = 4.585625E+05 days
 3093     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 3095     Time Step No. = 367 Elapsed Time = 4.605625E+05 days
 3096     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.79 ( 0.79 sec) Binary
 3098     Time Step No. = 368 Elapsed Time = 4.625625E+05 days
 3099     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3101     Time Step No. = 369 Elapsed Time = 4.645625E+05 days
 3102     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3104     Time Step No. = 370 Elapsed Time = 4.665625E+05 days
 3105     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3107     Time Step No. = 371 Elapsed Time = 4.685625E+05 days
 3108     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3110     Time Step No. = 372 Elapsed Time = 4.705625E+05 days
 3111     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3113     Time Step No. = 373 Elapsed Time = 4.725625E+05 days
 3114     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3116     Time Step No. = 374 Elapsed Time = 4.745625E+05 days
 3117     Date: 02/15/07 Time: 12:58:17 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3119     Time Step No. = 375 Elapsed Time = 4.765625E+05 days
 3120     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
```

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 3122     Time Step No. = 376 Elapsed Time = 4.785625E+05 days
 3123     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3125     Time Step No. = 377 Elapsed Time = 4.805625E+05 days
 3126     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3128     Time Step No. = 378 Elapsed Time = 4.825625E+05 days
 3129     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3131     Time Step No. = 379 Elapsed Time = 4.845625E+05 days
 3132     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3134     Time Step No. = 380 Elapsed Time = 4.865625E+05 days
 3135     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3137     Time Step No. = 381 Elapsed Time = 4.885625E+05 days
 3138     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.80 ( 0.80 sec) Binary
 3140     Time Step No. = 382 Elapsed Time = 4.905625E+05 days
 3141     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3143     Time Step No. = 383 Elapsed Time = 4.925625E+05 days
 3144     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3146     Time Step No. = 384 Elapsed Time = 4.945625E+05 days
 3147     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3149     Time Step No. = 385 Elapsed Time = 4.965625E+05 days
 3150     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3152     Time Step No. = 386 Elapsed Time = 4.985625E+05 days
 3153     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3155     Time Step No. = 387 Elapsed Time = 5.005625E+05 days
 3156     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3158     Time Step No. = 388 Elapsed Time = 5.025625E+05 days
 3159     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.81 ( 0.81 sec) Binary
 3161     Time Step No. = 389 Elapsed Time = 5.045625E+05 days
 3162     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3164     Time Step No. = 390 Elapsed Time = 5.065625E+05 days
 3165     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3167     Time Step No. = 391 Elapsed Time = 5.085625E+05 days
 3168     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3170     Time Step No. = 392 Elapsed Time = 5.105625E+05 days
 3171     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3173     Time Step No. = 393 Elapsed Time = 5.125625E+05 days
 3174     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3176     Time Step No. = 394 Elapsed Time = 5.145625E+05 days
 3177     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.82 ( 0.82 sec) Binary
 3179     Time Step No. = 395 Elapsed Time = 5.165625E+05 days
 3180     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3182     Time Step No. = 396 Elapsed Time = 5.185625E+05 days
 3183     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3185     Time Step No. = 397 Elapsed Time = 5.205625E+05 days
 3186     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3188     Time Step No. = 398 Elapsed Time = 5.225625E+05 days
 3189     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3191     Time Step No. = 399 Elapsed Time = 5.245625E+05 days
 3192     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3194     Time Step No. = 400 Elapsed Time = 5.265625E+05 days
 3195     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3197     Time Step No. = 401 Elapsed Time = 5.285625E+05 days
 3198     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.83 ( 0.83 sec) Binary
 3200     Time Step No. = 402 Elapsed Time = 5.305625E+05 days
 3201     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3203     Time Step No. = 403 Elapsed Time = 5.325625E+05 days
 3204     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3206     Time Step No. = 404 Elapsed Time = 5.345625E+05 days
 3207     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3209     Time Step No. = 405 Elapsed Time = 5.365625E+05 days
 3210     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3212     Time Step No. = 406 Elapsed Time = 5.385625E+05 days
 3213     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3215     Time Step No. = 407 Elapsed Time = 5.405625E+05 days
 3216     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
 3218     Time Step No. = 408 Elapsed Time = 5.425625E+05 days
 3219     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3221     Time Step No. = 409 Elapsed Time = 5.445625E+05 days
 3222     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3224     Time Step No. = 410 Elapsed Time = 5.465625E+05 days
 3225     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3228    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3087     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) ASCII
 3089     Time Step No. = 365 Elapsed Time = 4.565625E+05 days
 3090     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
```

```
3092    Time Step No. = 366 Elapsed Time = 4.585625E+05 days
3093    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3095    Time Step No. = 367 Elapsed Time = 4.605625E+05 days
3096    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3098    Time Step No. = 368 Elapsed Time = 4.625625E+05 days
3099    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3101    Time Step No. = 369 Elapsed Time = 4.645625E+05 days
3102    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3104    Time Step No. = 370 Elapsed Time = 4.665625E+05 days
3105    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.84 ( 0.84 sec) Binary
3107    Time Step No. = 371 Elapsed Time = 4.685625E+05 days
3108    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3110    Time Step No. = 372 Elapsed Time = 4.705625E+05 days
3111    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3113    Time Step No. = 373 Elapsed Time = 4.725625E+05 days
3114    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3116    Time Step No. = 374 Elapsed Time = 4.745625E+05 days
3117    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3119    Time Step No. = 375 Elapsed Time = 4.765625E+05 days
3120    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3122    Time Step No. = 376 Elapsed Time = 4.785625E+05 days
3123    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
3125    Time Step No. = 377 Elapsed Time = 4.805625E+05 days
3126    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3128    Time Step No. = 378 Elapsed Time = 4.825625E+05 days
3129    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3131    Time Step No. = 379 Elapsed Time = 4.845625E+05 days
3132    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3134    Time Step No. = 380 Elapsed Time = 4.865625E+05 days
3135    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3137    Time Step No. = 381 Elapsed Time = 4.885625E+05 days
3138    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3140    Time Step No. = 382 Elapsed Time = 4.905625E+05 days
3141    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3143    Time Step No. = 383 Elapsed Time = 4.925625E+05 days
3144    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
3146    Time Step No. = 384 Elapsed Time = 4.945625E+05 days
3147    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3149    Time Step No. = 385 Elapsed Time = 4.965625E+05 days
3150    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3152    Time Step No. = 386 Elapsed Time = 4.985625E+05 days
3153    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3155    Time Step No. = 387 Elapsed Time = 5.005625E+05 days
3156    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3158    Time Step No. = 388 Elapsed Time = 5.025625E+05 days
3159    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3161    Time Step No. = 389 Elapsed Time = 5.045625E+05 days
3162    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3164    Time Step No. = 390 Elapsed Time = 5.065625E+05 days
3165    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
3167    Time Step No. = 391 Elapsed Time = 5.085625E+05 days
3168    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3170    Time Step No. = 392 Elapsed Time = 5.105625E+05 days
3171    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3173    Time Step No. = 393 Elapsed Time = 5.125625E+05 days
3174    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3176    Time Step No. = 394 Elapsed Time = 5.145625E+05 days
3177    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3179    Time Step No. = 395 Elapsed Time = 5.165625E+05 days
3180    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
3182    Time Step No. = 396 Elapsed Time = 5.185625E+05 days
3183    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3185    Time Step No. = 397 Elapsed Time = 5.205625E+05 days
3186    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3188    Time Step No. = 398 Elapsed Time = 5.225625E+05 days
3189    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3191    Time Step No. = 399 Elapsed Time = 5.245625E+05 days
3192    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3194    Time Step No. = 400 Elapsed Time = 5.265625E+05 days
3195    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3197    Time Step No. = 401 Elapsed Time = 5.285625E+05 days
3198    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3200    Time Step No. = 402 Elapsed Time = 5.305625E+05 days
3201    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3203    Time Step No. = 403 Elapsed Time = 5.325625E+05 days
3204    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
```

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 3206     Time Step No. = 404 Elapsed Time = 5.345625E+05 days
 3207     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3209     Time Step No. = 405 Elapsed Time = 5.365625E+05 days
 3210     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3212     Time Step No. = 406 Elapsed Time = 5.385625E+05 days
 3213     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3215     Time Step No. = 407 Elapsed Time = 5.405625E+05 days
 3216     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3218     Time Step No. = 408 Elapsed Time = 5.425625E+05 days
 3219     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
 3221     Time Step No. = 409 Elapsed Time = 5.445625E+05 days
 3222     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3224     Time Step No. = 410 Elapsed Time = 5.465625E+05 days
 3225     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
 3228    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3237     CPU Time (total for run) = 0.85 sec = 0.00024 hr
 3238    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3237     CPU Time (total for run) = 0.91 sec = 0.00025 hr
 3238    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3433     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) ASCII
 3435     Time Step No. = 411 Elapsed Time = 5.478704E+05 days
 3436     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3438     Time Step No. = 412 Elapsed Time = 5.498704E+05 days
 3439     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.85 ( 0.85 sec) Binary
 3441     Time Step No. = 413 Elapsed Time = 5.518704E+05 days
 3442     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3444     Time Step No. = 414 Elapsed Time = 5.538704E+05 days
 3445     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3447     Time Step No. = 415 Elapsed Time = 5.558704E+05 days
 3448     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3450     Time Step No. = 416 Elapsed Time = 5.578704E+05 days
 3451     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3453     Time Step No. = 417 Elapsed Time = 5.598704E+05 days
 3454     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3456     Time Step No. = 418 Elapsed Time = 5.618704E+05 days
 3457     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.86 ( 0.86 sec) Binary
 3459     Time Step No. = 419 Elapsed Time = 5.638704E+05 days
 3460     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3462     Time Step No. = 420 Elapsed Time = 5.658704E+05 days
 3463     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3465     Time Step No. = 421 Elapsed Time = 5.678704E+05 days
 3466     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3468     Time Step No. = 422 Elapsed Time = 5.698704E+05 days
 3469     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3471     Time Step No. = 423 Elapsed Time = 5.718704E+05 days
 3472     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.87 ( 0.87 sec) Binary
 3474     Time Step No. = 424 Elapsed Time = 5.738704E+05 days
 3475     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3477     Time Step No. = 425 Elapsed Time = 5.758704E+05 days
 3478     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3480     Time Step No. = 426 Elapsed Time = 5.778704E+05 days
 3481     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3483     Time Step No. = 427 Elapsed Time = 5.798704E+05 days
 3484     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3486     Time Step No. = 428 Elapsed Time = 5.818704E+05 days
 3487     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3489     Time Step No. = 429 Elapsed Time = 5.838704E+05 days
 3490     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3492     Time Step No. = 430 Elapsed Time = 5.858704E+05 days
 3493     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.88 ( 0.88 sec) Binary
 3495     Time Step No. = 431 Elapsed Time = 5.878704E+05 days
 3496     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3498     Time Step No. = 432 Elapsed Time = 5.898704E+05 days
 3499     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3501     Time Step No. = 433 Elapsed Time = 5.918704E+05 days
 3502     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
 3504     Time Step No. = 434 Elapsed Time = 5.938704E+05 days
 3505     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
```

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3507     Time Step No. = 435 Elapsed Time = 5.958704E+05 days
3508     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3510     Time Step No. = 436 Elapsed Time = 5.978704E+05 days
3511     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3513     Time Step No. = 437 Elapsed Time = 5.998704E+05 days
3514     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.89 ( 0.89 sec) Binary
3516     Time Step No. = 438 Elapsed Time = 6.018704E+05 days
3517     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3519     Time Step No. = 439 Elapsed Time = 6.038704E+05 days
3520     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3522     Time Step No. = 440 Elapsed Time = 6.058704E+05 days
3523     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3525     Time Step No. = 441 Elapsed Time = 6.078704E+05 days
3526     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3528     Time Step No. = 442 Elapsed Time = 6.098704E+05 days
3529     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3531     Time Step No. = 443 Elapsed Time = 6.118704E+05 days
3532     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.90 ( 0.90 sec) Binary
3534     Time Step No. = 444 Elapsed Time = 6.138704E+05 days
3535     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3537     Time Step No. = 445 Elapsed Time = 6.158704E+05 days
3538     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3540     Time Step No. = 446 Elapsed Time = 6.178704E+05 days
3541     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3543     Time Step No. = 447 Elapsed Time = 6.198704E+05 days
3544     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3546     Time Step No. = 448 Elapsed Time = 6.218704E+05 days
3547     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3549     Time Step No. = 449 Elapsed Time = 6.238704E+05 days
3550     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3552     Time Step No. = 450 Elapsed Time = 6.258704E+05 days
3553     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3555     Time Step No. = 451 Elapsed Time = 6.278704E+05 days
3556     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3558     Time Step No. = 452 Elapsed Time = 6.298704E+05 days
3559     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3561     Time Step No. = 453 Elapsed Time = 6.318704E+05 days
3562     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3564     Time Step No. = 454 Elapsed Time = 6.338704E+05 days
3565     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3567     Time Step No. = 455 Elapsed Time = 6.358704E+05 days
3568     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3570     Time Step No. = 456 Elapsed Time = 6.378704E+05 days
3571     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3574    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
3433     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) ASCII
3435     Time Step No. = 411 Elapsed Time = 5.478704E+05 days
3436     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3438     Time Step No. = 412 Elapsed Time = 5.498704E+05 days
3439     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3441     Time Step No. = 413 Elapsed Time = 5.518704E+05 days
3442     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.91 ( 0.91 sec) Binary
3444     Time Step No. = 414 Elapsed Time = 5.538704E+05 days
3445     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3447     Time Step No. = 415 Elapsed Time = 5.558704E+05 days
3448     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3450     Time Step No. = 416 Elapsed Time = 5.578704E+05 days
3451     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3453     Time Step No. = 417 Elapsed Time = 5.598704E+05 days
3454     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3456     Time Step No. = 418 Elapsed Time = 5.618704E+05 days
3457     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3459     Time Step No. = 419 Elapsed Time = 5.638704E+05 days
3460     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.92 ( 0.92 sec) Binary
3462     Time Step No. = 420 Elapsed Time = 5.658704E+05 days
3463     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3465     Time Step No. = 421 Elapsed Time = 5.678704E+05 days
3466     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3468     Time Step No. = 422 Elapsed Time = 5.698704E+05 days
3469     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3471     Time Step No. = 423 Elapsed Time = 5.718704E+05 days
3472     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
3474     Time Step No. = 424 Elapsed Time = 5.738704E+05 days
3475     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
```

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 3477     Time Step No. = 425 Elapsed Time = 5.758704E+05 days
 3478     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3480     Time Step No. = 426 Elapsed Time = 5.778704E+05 days
 3481     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3483     Time Step No. = 427 Elapsed Time = 5.798704E+05 days
 3484     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3486     Time Step No. = 428 Elapsed Time = 5.818704E+05 days
 3487     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3489     Time Step No. = 429 Elapsed Time = 5.838704E+05 days
 3490     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3492     Time Step No. = 430 Elapsed Time = 5.858704E+05 days
 3493     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3495     Time Step No. = 431 Elapsed Time = 5.878704E+05 days
 3496     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3498     Time Step No. = 432 Elapsed Time = 5.898704E+05 days
 3499     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3501     Time Step No. = 433 Elapsed Time = 5.918704E+05 days
 3502     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3504     Time Step No. = 434 Elapsed Time = 5.938704E+05 days
 3505     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3507     Time Step No. = 435 Elapsed Time = 5.958704E+05 days
 3508     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3510     Time Step No. = 436 Elapsed Time = 5.978704E+05 days
 3511     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3513     Time Step No. = 437 Elapsed Time = 5.998704E+05 days
 3514     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3516     Time Step No. = 438 Elapsed Time = 6.018704E+05 days
 3517     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3519     Time Step No. = 439 Elapsed Time = 6.038704E+05 days
 3520     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3522     Time Step No. = 440 Elapsed Time = 6.058704E+05 days
 3523     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3525     Time Step No. = 441 Elapsed Time = 6.078704E+05 days
 3526     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3528     Time Step No. = 442 Elapsed Time = 6.098704E+05 days
 3529     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3531     Time Step No. = 443 Elapsed Time = 6.118704E+05 days
 3532     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3534     Time Step No. = 444 Elapsed Time = 6.138704E+05 days
 3535     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3537     Time Step No. = 445 Elapsed Time = 6.158704E+05 days
 3538     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3540     Time Step No. = 446 Elapsed Time = 6.178704E+05 days
 3541     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3543     Time Step No. = 447 Elapsed Time = 6.198704E+05 days
 3544     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3546     Time Step No. = 448 Elapsed Time = 6.218704E+05 days
 3547     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3549     Time Step No. = 449 Elapsed Time = 6.238704E+05 days
 3550     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3552     Time Step No. = 450 Elapsed Time = 6.258704E+05 days
 3553     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3555     Time Step No. = 451 Elapsed Time = 6.278704E+05 days
 3556     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3558     Time Step No. = 452 Elapsed Time = 6.298704E+05 days
 3559     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3561     Time Step No. = 453 Elapsed Time = 6.318704E+05 days
 3562     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3564     Time Step No. = 454 Elapsed Time = 6.338704E+05 days
 3565     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3567     Time Step No. = 455 Elapsed Time = 6.358704E+05 days
 3568     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3570     Time Step No. = 456 Elapsed Time = 6.378704E+05 days
 3571     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3574    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3583     CPU Time (total for run) = 0.92 sec = 0.00026 hr
 3584    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3583     CPU Time (total for run) = 0.98 sec = 0.00027 hr
 3584    ******************************************************************************
************
************
```

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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3779     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) ASCII
 3781     Time Step No. = 457 Elapsed Time = 6.391898E+05 days
 3782     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3784     Time Step No. = 458 Elapsed Time = 6.411898E+05 days
 3785     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3787     Time Step No. = 459 Elapsed Time = 6.431898E+05 days
 3788     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3790     Time Step No. = 460 Elapsed Time = 6.451898E+05 days
 3791     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3793     Time Step No. = 461 Elapsed Time = 6.471898E+05 days
 3794     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3796     Time Step No. = 462 Elapsed Time = 6.491898E+05 days
 3797     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3799     Time Step No. = 463 Elapsed Time = 6.511898E+05 days
 3800     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3802     Time Step No. = 464 Elapsed Time = 6.531898E+05 days
 3803     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3805     Time Step No. = 465 Elapsed Time = 6.551898E+05 days
 3806     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3808     Time Step No. = 466 Elapsed Time = 6.571898E+05 days
 3809     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3811     Time Step No. = 467 Elapsed Time = 6.591898E+05 days
 3812     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.93 ( 0.93 sec) Binary
 3814     Time Step No. = 468 Elapsed Time = 6.611898E+05 days
 3815     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3817     Time Step No. = 469 Elapsed Time = 6.631898E+05 days
 3818     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3820     Time Step No. = 470 Elapsed Time = 6.651898E+05 days
 3821     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3823     Time Step No. = 471 Elapsed Time = 6.671898E+05 days
 3824     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.94 ( 0.94 sec) Binary
 3826     Time Step No. = 472 Elapsed Time = 6.691898E+05 days
 3827     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3829     Time Step No. = 473 Elapsed Time = 6.711898E+05 days
 3830     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3832     Time Step No. = 474 Elapsed Time = 6.731898E+05 days
 3833     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3835     Time Step No. = 475 Elapsed Time = 6.751898E+05 days
 3836     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3838     Time Step No. = 476 Elapsed Time = 6.771898E+05 days
 3839     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3841     Time Step No. = 477 Elapsed Time = 6.791898E+05 days
 3842     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.95 ( 0.95 sec) Binary
 3844     Time Step No. = 478 Elapsed Time = 6.811898E+05 days
 3845     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3847     Time Step No. = 479 Elapsed Time = 6.831898E+05 days
 3848     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3850     Time Step No. = 480 Elapsed Time = 6.851898E+05 days
 3851     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3853     Time Step No. = 481 Elapsed Time = 6.871898E+05 days
 3854     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3856     Time Step No. = 482 Elapsed Time = 6.891898E+05 days
 3857     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3859     Time Step No. = 483 Elapsed Time = 6.911898E+05 days
 3860     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.96 ( 0.96 sec) Binary
 3862     Time Step No. = 484 Elapsed Time = 6.931898E+05 days
 3863     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3865     Time Step No. = 485 Elapsed Time = 6.951898E+05 days
 3866     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3868     Time Step No. = 486 Elapsed Time = 6.971898E+05 days
 3869     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3871     Time Step No. = 487 Elapsed Time = 6.991898E+05 days
 3872     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3874     Time Step No. = 488 Elapsed Time = 7.011898E+05 days
 3875     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3877     Time Step No. = 489 Elapsed Time = 7.031898E+05 days
 3878     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.97 ( 0.97 sec) Binary
 3880     Time Step No. = 490 Elapsed Time = 7.051898E+05 days
 3881     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3883     Time Step No. = 491 Elapsed Time = 7.071898E+05 days
 3884     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3886     Time Step No. = 492 Elapsed Time = 7.091898E+05 days
 3887     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3889     Time Step No. = 493 Elapsed Time = 7.111898E+05 days
 3890     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
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 3892    Time Step No. = 494 Elapsed Time = 7.131898E+05 days
 3893    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3895    Time Step No. = 495 Elapsed Time = 7.151898E+05 days
 3896    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.98 ( 0.98 sec) Binary
 3898    Time Step No. = 496 Elapsed Time = 7.171898E+05 days
 3899    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3901    Time Step No. = 497 Elapsed Time = 7.191898E+05 days
 3902    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3904    Time Step No. = 498 Elapsed Time = 7.211898E+05 days
 3905    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3907    Time Step No. = 499 Elapsed Time = 7.231898E+05 days
 3908    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3910    Time Step No. = 500 Elapsed Time = 7.251898E+05 days
 3911    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3913    Time Step No. = 501 Elapsed Time = 7.271898E+05 days
 3914    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3916    Time Step No. = 502 Elapsed Time = 7.291898E+05 days
 3917    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3920   ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3779    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) ASCII
 3781    Time Step No. = 457 Elapsed Time = 6.391898E+05 days
 3782    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3784    Time Step No. = 458 Elapsed Time = 6.411898E+05 days
 3785    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3787    Time Step No. = 459 Elapsed Time = 6.431898E+05 days
 3788    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3790    Time Step No. = 460 Elapsed Time = 6.451898E+05 days
 3791    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3793    Time Step No. = 461 Elapsed Time = 6.471898E+05 days
 3794    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3796    Time Step No. = 462 Elapsed Time = 6.491898E+05 days
 3797    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3799    Time Step No. = 463 Elapsed Time = 6.511898E+05 days
 3800    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3802    Time Step No. = 464 Elapsed Time = 6.531898E+05 days
 3803    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3805    Time Step No. = 465 Elapsed Time = 6.551898E+05 days
 3806    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3808    Time Step No. = 466 Elapsed Time = 6.571898E+05 days
 3809    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 0.99 ( 0.99 sec) Binary
 3811    Time Step No. = 467 Elapsed Time = 6.591898E+05 days
 3812    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3814    Time Step No. = 468 Elapsed Time = 6.611898E+05 days
 3815    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3817    Time Step No. = 469 Elapsed Time = 6.631898E+05 days
 3818    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3820    Time Step No. = 470 Elapsed Time = 6.651898E+05 days
 3821    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 3823    Time Step No. = 471 Elapsed Time = 6.671898E+05 days
 3824    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3826    Time Step No. = 472 Elapsed Time = 6.691898E+05 days
 3827    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3829    Time Step No. = 473 Elapsed Time = 6.711898E+05 days
 3830    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3832    Time Step No. = 474 Elapsed Time = 6.731898E+05 days
 3833    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3835    Time Step No. = 475 Elapsed Time = 6.751898E+05 days
 3836    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3838    Time Step No. = 476 Elapsed Time = 6.771898E+05 days
 3839    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3841    Time Step No. = 477 Elapsed Time = 6.791898E+05 days
 3842    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 3844    Time Step No. = 478 Elapsed Time = 6.811898E+05 days
 3845    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3847    Time Step No. = 479 Elapsed Time = 6.831898E+05 days
 3848    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3850    Time Step No. = 480 Elapsed Time = 6.851898E+05 days
 3851    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3853    Time Step No. = 481 Elapsed Time = 6.871898E+05 days
 3854    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3856    Time Step No. = 482 Elapsed Time = 6.891898E+05 days
 3857    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 3859    Time Step No. = 483 Elapsed Time = 6.911898E+05 days
 3860    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
```

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 3862     Time Step No. = 484 Elapsed Time = 6.931898E+05 days
 3863     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3865     Time Step No. = 485 Elapsed Time = 6.951898E+05 days
 3866     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3868     Time Step No. = 486 Elapsed Time = 6.971898E+05 days
 3869     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3871     Time Step No. = 487 Elapsed Time = 6.991898E+05 days
 3872     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3874     Time Step No. = 488 Elapsed Time = 7.011898E+05 days
 3875     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
 3877     Time Step No. = 489 Elapsed Time = 7.031898E+05 days
 3878     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3880     Time Step No. = 490 Elapsed Time = 7.051898E+05 days
 3881     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3883     Time Step No. = 491 Elapsed Time = 7.071898E+05 days
 3884     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3886     Time Step No. = 492 Elapsed Time = 7.091898E+05 days
 3887     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3889     Time Step No. = 493 Elapsed Time = 7.111898E+05 days
 3890     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3892     Time Step No. = 494 Elapsed Time = 7.131898E+05 days
 3893     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
 3895     Time Step No. = 495 Elapsed Time = 7.151898E+05 days
 3896     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3898     Time Step No. = 496 Elapsed Time = 7.171898E+05 days
 3899     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3901     Time Step No. = 497 Elapsed Time = 7.191898E+05 days
 3902     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3904     Time Step No. = 498 Elapsed Time = 7.211898E+05 days
 3905     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3907     Time Step No. = 499 Elapsed Time = 7.231898E+05 days
 3908     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
 3910     Time Step No. = 500 Elapsed Time = 7.251898E+05 days
 3911     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3913     Time Step No. = 501 Elapsed Time = 7.271898E+05 days
 3914     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3916     Time Step No. = 502 Elapsed Time = 7.291898E+05 days
 3917     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
 3920    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 3929     CPU Time (total for run) = 1.00 sec = 0.00028 hr
 3930    ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 3929     CPU Time (total for run) = 1.06 sec = 0.00029 hr
 3930    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 4125     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) ASCII
 4127     Time Step No. = 503 Elapsed Time = 7.305093E+05 days
 4128     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 4130     Time Step No. = 504 Elapsed Time = 7.325093E+05 days
 4131     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.00 ( 1.00 sec) Binary
 4133     Time Step No. = 505 Elapsed Time = 7.345093E+05 days
 4134     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 4136     Time Step No. = 506 Elapsed Time = 7.365093E+05 days
 4137     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 4139     Time Step No. = 507 Elapsed Time = 7.385093E+05 days
 4140     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 4142     Time Step No. = 508 Elapsed Time = 7.405093E+05 days
 4143     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 4145     Time Step No. = 509 Elapsed Time = 7.425093E+05 days
 4146     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.01 ( 1.01 sec) Binary
 4148     Time Step No. = 510 Elapsed Time = 7.445093E+05 days
 4149     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 4151     Time Step No. = 511 Elapsed Time = 7.465093E+05 days
 4152     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 4154     Time Step No. = 512 Elapsed Time = 7.485093E+05 days
 4155     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 4157     Time Step No. = 513 Elapsed Time = 7.505093E+05 days
 4158     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
 4160     Time Step No. = 514 Elapsed Time = 7.525093E+05 days
 4161     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
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4163     Time Step No. = 515 Elapsed Time = 7.545093E+05 days
4164     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4166     Time Step No. = 516 Elapsed Time = 7.565093E+05 days
4167     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4169     Time Step No. = 517 Elapsed Time = 7.585093E+05 days
4170     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4172     Time Step No. = 518 Elapsed Time = 7.605093E+05 days
4173     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4175     Time Step No. = 519 Elapsed Time = 7.625093E+05 days
4176     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4178     Time Step No. = 520 Elapsed Time = 7.645093E+05 days
4179     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4181     Time Step No. = 521 Elapsed Time = 7.665093E+05 days
4182     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.02 ( 1.02 sec) Binary
4184     Time Step No. = 522 Elapsed Time = 7.685093E+05 days
4185     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4187     Time Step No. = 523 Elapsed Time = 7.705093E+05 days
4188     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4190     Time Step No. = 524 Elapsed Time = 7.725093E+05 days
4191     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4193     Time Step No. = 525 Elapsed Time = 7.745093E+05 days
4194     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4196     Time Step No. = 526 Elapsed Time = 7.765093E+05 days
4197     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4199     Time Step No. = 527 Elapsed Time = 7.785093E+05 days
4200     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.03 ( 1.03 sec) Binary
4202     Time Step No. = 528 Elapsed Time = 7.805093E+05 days
4203     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4205     Time Step No. = 529 Elapsed Time = 7.825093E+05 days
4206     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4208     Time Step No. = 530 Elapsed Time = 7.845093E+05 days
4209     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4211     Time Step No. = 531 Elapsed Time = 7.865093E+05 days
4212     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4214     Time Step No. = 532 Elapsed Time = 7.885093E+05 days
4215     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4217     Time Step No. = 533 Elapsed Time = 7.905093E+05 days
4218     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4220     Time Step No. = 534 Elapsed Time = 7.925093E+05 days
4221     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4223     Time Step No. = 535 Elapsed Time = 7.945093E+05 days
4224     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4226     Time Step No. = 536 Elapsed Time = 7.965093E+05 days
4227     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4229     Time Step No. = 537 Elapsed Time = 7.985093E+05 days
4230     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.04 ( 1.04 sec) Binary
4232     Time Step No. = 538 Elapsed Time = 8.005093E+05 days
4233     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4235     Time Step No. = 539 Elapsed Time = 8.025093E+05 days
4236     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4238     Time Step No. = 540 Elapsed Time = 8.045093E+05 days
4239     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4241     Time Step No. = 541 Elapsed Time = 8.065093E+05 days
4242     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4244     Time Step No. = 542 Elapsed Time = 8.085093E+05 days
4245     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4247     Time Step No. = 543 Elapsed Time = 8.105093E+05 days
4248     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4250     Time Step No. = 544 Elapsed Time = 8.125093E+05 days
4251     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4253     Time Step No. = 545 Elapsed Time = 8.145093E+05 days
4254     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4256     Time Step No. = 546 Elapsed Time = 8.165093E+05 days
4257     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4259     Time Step No. = 547 Elapsed Time = 8.185093E+05 days
4260     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4262     Time Step No. = 548 Elapsed Time = 8.205093E+05 days
4263     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4265     Time Step No. = 549 Elapsed Time = 8.225093E+05 days
4266     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.05 ( 1.05 sec) Binary
4268     Time Step No. = 550 Elapsed Time = 8.245093E+05 days
4269     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4271     Time Step No. = 551 Elapsed Time = 8.265093E+05 days
4272     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4274     Time Step No. = 552 Elapsed Time = 8.285093E+05 days
4275     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
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4277    Time Step No. = 553 Elapsed Time = 8.305093E+05 days
4278    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4280    Time Step No. = 554 Elapsed Time = 8.325093E+05 days
4281    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4283    Time Step No. = 555 Elapsed Time = 8.345093E+05 days
4284    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4286    Time Step No. = 556 Elapsed Time = 8.365093E+05 days
4287    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4289    Time Step No. = 557 Elapsed Time = 8.385093E+05 days
4290    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4292    Time Step No. = 558 Elapsed Time = 8.405093E+05 days
4293    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4295    Time Step No. = 559 Elapsed Time = 8.425093E+05 days
4296    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4298    Time Step No. = 560 Elapsed Time = 8.445093E+05 days
4299    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4301    Time Step No. = 561 Elapsed Time = 8.465093E+05 days
4302    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4304    Time Step No. = 562 Elapsed Time = 8.485093E+05 days
4305    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4307    Time Step No. = 563 Elapsed Time = 8.505093E+05 days
4308    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4310    Time Step No. = 564 Elapsed Time = 8.525093E+05 days
4311    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4313    Time Step No. = 565 Elapsed Time = 8.545093E+05 days
4314    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4316    Time Step No. = 566 Elapsed Time = 8.565093E+05 days
4317    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4319    Time Step No. = 567 Elapsed Time = 8.585093E+05 days
4320    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4322    Time Step No. = 568 Elapsed Time = 8.605093E+05 days
4323    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4325    Time Step No. = 569 Elapsed Time = 8.625093E+05 days
4326    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4328    Time Step No. = 570 Elapsed Time = 8.645093E+05 days
4329    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4331    Time Step No. = 571 Elapsed Time = 8.665093E+05 days
4332    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4334    Time Step No. = 572 Elapsed Time = 8.685093E+05 days
4335    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4337    Time Step No. = 573 Elapsed Time = 8.705093E+05 days
4338    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4340    Time Step No. = 574 Elapsed Time = 8.725093E+05 days
4341    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4343    Time Step No. = 575 Elapsed Time = 8.745093E+05 days
4344    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4346    Time Step No. = 576 Elapsed Time = 8.765093E+05 days
4347    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4349    Time Step No. = 577 Elapsed Time = 8.785093E+05 days
4350    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4352    Time Step No. = 578 Elapsed Time = 8.805093E+05 days
4353    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4355    Time Step No. = 579 Elapsed Time = 8.825093E+05 days
4356    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4358    Time Step No. = 580 Elapsed Time = 8.845093E+05 days
4359    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4361    Time Step No. = 581 Elapsed Time = 8.865093E+05 days
4362    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4364    Time Step No. = 582 Elapsed Time = 8.885093E+05 days
4365    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4367    Time Step No. = 583 Elapsed Time = 8.905093E+05 days
4368    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4370    Time Step No. = 584 Elapsed Time = 8.925093E+05 days
4371    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4373    Time Step No. = 585 Elapsed Time = 8.945093E+05 days
4374    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4376    Time Step No. = 586 Elapsed Time = 8.965093E+05 days
4377    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4379    Time Step No. = 587 Elapsed Time = 8.985093E+05 days
4380    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4382    Time Step No. = 588 Elapsed Time = 9.005093E+05 days
4383    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4385    Time Step No. = 589 Elapsed Time = 9.025093E+05 days
4386    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4388    Time Step No. = 590 Elapsed Time = 9.045093E+05 days
4389    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
```

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4391    Time Step No. = 591 Elapsed Time = 9.065093E+05 days
4392    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4394    Time Step No. = 592 Elapsed Time = 9.085093E+05 days
4395    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4397    Time Step No. = 593 Elapsed Time = 9.105093E+05 days
4398    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4400    Time Step No. = 594 Elapsed Time = 9.125093E+05 days
4401    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4403    Time Step No. = 595 Elapsed Time = 9.145093E+05 days
4404    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4406    Time Step No. = 596 Elapsed Time = 9.165093E+05 days
4407    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4409    Time Step No. = 597 Elapsed Time = 9.185093E+05 days
4410    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4412    Time Step No. = 598 Elapsed Time = 9.205093E+05 days
4413    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4415    Time Step No. = 599 Elapsed Time = 9.225093E+05 days
4416    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4418    Time Step No. = 600 Elapsed Time = 9.245093E+05 days
4419    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4421    Time Step No. = 601 Elapsed Time = 9.265093E+05 days
4422    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4424    Time Step No. = 602 Elapsed Time = 9.285093E+05 days
4425    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4427    Time Step No. = 603 Elapsed Time = 9.305093E+05 days
4428    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4430    Time Step No. = 604 Elapsed Time = 9.325093E+05 days
4431    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4433    Time Step No. = 605 Elapsed Time = 9.345093E+05 days
4434    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4436    Time Step No. = 606 Elapsed Time = 9.365093E+05 days
4437    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4439    Time Step No. = 607 Elapsed Time = 9.385093E+05 days
4440    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4442    Time Step No. = 608 Elapsed Time = 9.405093E+05 days
4443    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4445    Time Step No. = 609 Elapsed Time = 9.425093E+05 days
4446    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4448    Time Step No. = 610 Elapsed Time = 9.445093E+05 days
4449    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4451    Time Step No. = 611 Elapsed Time = 9.465093E+05 days
4452    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4454    Time Step No. = 612 Elapsed Time = 9.485093E+05 days
4455    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4457    Time Step No. = 613 Elapsed Time = 9.505093E+05 days
4458    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4460    Time Step No. = 614 Elapsed Time = 9.525093E+05 days
4461    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4463    Time Step No. = 615 Elapsed Time = 9.545093E+05 days
4464    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4466    Time Step No. = 616 Elapsed Time = 9.565093E+05 days
4467    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4469    Time Step No. = 617 Elapsed Time = 9.585093E+05 days
4470    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4472    Time Step No. = 618 Elapsed Time = 9.605093E+05 days
4473    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4475    Time Step No. = 619 Elapsed Time = 9.625093E+05 days
4476    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4478    Time Step No. = 620 Elapsed Time = 9.645093E+05 days
4479    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4481    Time Step No. = 621 Elapsed Time = 9.665093E+05 days
4482    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4484    Time Step No. = 622 Elapsed Time = 9.685093E+05 days
4485    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4487    Time Step No. = 623 Elapsed Time = 9.705093E+05 days
4488    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4490    Time Step No. = 624 Elapsed Time = 9.725093E+05 days
4491    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4493    Time Step No. = 625 Elapsed Time = 9.745093E+05 days
4494    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4496    Time Step No. = 626 Elapsed Time = 9.765093E+05 days
4497    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4499    Time Step No. = 627 Elapsed Time = 9.785093E+05 days
4500    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4502    Time Step No. = 628 Elapsed Time = 9.805093E+05 days
4503    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
```

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4505    Time Step No. = 629 Elapsed Time = 9.825093E+05 days
4506    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4508    Time Step No. = 630 Elapsed Time = 9.845093E+05 days
4509    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4511    Time Step No. = 631 Elapsed Time = 9.865093E+05 days
4512    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4514    Time Step No. = 632 Elapsed Time = 9.885093E+05 days
4515    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4517    Time Step No. = 633 Elapsed Time = 9.905093E+05 days
4518    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4520    Time Step No. = 634 Elapsed Time = 9.925093E+05 days
4521    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4523    Time Step No. = 635 Elapsed Time = 9.945093E+05 days
4524    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4526    Time Step No. = 636 Elapsed Time = 9.965093E+05 days
4527    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4529    Time Step No. = 637 Elapsed Time = 9.985093E+05 days
4530    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4532    Time Step No. = 638 Elapsed Time = 1.000509E+06 days
4533    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4535    Time Step No. = 639 Elapsed Time = 1.002509E+06 days
4536    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4538    Time Step No. = 640 Elapsed Time = 1.004509E+06 days
4539    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4541    Time Step No. = 641 Elapsed Time = 1.006509E+06 days
4542    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4544    Time Step No. = 642 Elapsed Time = 1.008509E+06 days
4545    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4547    Time Step No. = 643 Elapsed Time = 1.010509E+06 days
4548    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4550    Time Step No. = 644 Elapsed Time = 1.012509E+06 days
4551    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4553    Time Step No. = 645 Elapsed Time = 1.014509E+06 days
4554    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4556    Time Step No. = 646 Elapsed Time = 1.016509E+06 days
4557    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4559    Time Step No. = 647 Elapsed Time = 1.018509E+06 days
4560    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4562    Time Step No. = 648 Elapsed Time = 1.020509E+06 days
4563    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4565    Time Step No. = 649 Elapsed Time = 1.022509E+06 days
4566    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4568    Time Step No. = 650 Elapsed Time = 1.024509E+06 days
4569    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4571    Time Step No. = 651 Elapsed Time = 1.026509E+06 days
4572    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4574    Time Step No. = 652 Elapsed Time = 1.028509E+06 days
4575    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4577    Time Step No. = 653 Elapsed Time = 1.030509E+06 days
4578    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4580    Time Step No. = 654 Elapsed Time = 1.032509E+06 days
4581    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4583    Time Step No. = 655 Elapsed Time = 1.034509E+06 days
4584    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4586    Time Step No. = 656 Elapsed Time = 1.036509E+06 days
4587    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4589    Time Step No. = 657 Elapsed Time = 1.038509E+06 days
4590    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4592    Time Step No. = 658 Elapsed Time = 1.040509E+06 days
4593    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4595    Time Step No. = 659 Elapsed Time = 1.042509E+06 days
4596    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4598    Time Step No. = 660 Elapsed Time = 1.044509E+06 days
4599    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4601    Time Step No. = 661 Elapsed Time = 1.046509E+06 days
4602    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4604    Time Step No. = 662 Elapsed Time = 1.048509E+06 days
4605    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4607    Time Step No. = 663 Elapsed Time = 1.050509E+06 days
4608    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4610    Time Step No. = 664 Elapsed Time = 1.052509E+06 days
4611    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4613    Time Step No. = 665 Elapsed Time = 1.054509E+06 days
4614    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4616    Time Step No. = 666 Elapsed Time = 1.056509E+06 days
4617    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
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4619     Time Step No. = 667 Elapsed Time = 1.058509E+06 days
4620     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4622     Time Step No. = 668 Elapsed Time = 1.060509E+06 days
4623     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4625     Time Step No. = 669 Elapsed Time = 1.062509E+06 days
4626     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4628     Time Step No. = 670 Elapsed Time = 1.064509E+06 days
4629     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4631     Time Step No. = 671 Elapsed Time = 1.066509E+06 days
4632     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4634     Time Step No. = 672 Elapsed Time = 1.068509E+06 days
4635     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4637     Time Step No. = 673 Elapsed Time = 1.070509E+06 days
4638     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4640     Time Step No. = 674 Elapsed Time = 1.072509E+06 days
4641     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4643     Time Step No. = 675 Elapsed Time = 1.074509E+06 days
4644     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4646     Time Step No. = 676 Elapsed Time = 1.076509E+06 days
4647     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4649     Time Step No. = 677 Elapsed Time = 1.078509E+06 days
4650     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4652     Time Step No. = 678 Elapsed Time = 1.080509E+06 days
4653     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4655     Time Step No. = 679 Elapsed Time = 1.082509E+06 days
4656     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4658     Time Step No. = 680 Elapsed Time = 1.084509E+06 days
4659     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4661     Time Step No. = 681 Elapsed Time = 1.086509E+06 days
4662     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4664     Time Step No. = 682 Elapsed Time = 1.088509E+06 days
4665     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4667     Time Step No. = 683 Elapsed Time = 1.090509E+06 days
4668     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4670     Time Step No. = 684 Elapsed Time = 1.092509E+06 days
4671     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4673     Time Step No. = 685 Elapsed Time = 1.094509E+06 days
4674     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4677    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4125     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) ASCII
4127     Time Step No. = 503 Elapsed Time = 7.305093E+05 days
4128     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4130     Time Step No. = 504 Elapsed Time = 7.325093E+05 days
4131     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.06 ( 1.06 sec) Binary
4133     Time Step No. = 505 Elapsed Time = 7.345093E+05 days
4134     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4136     Time Step No. = 506 Elapsed Time = 7.365093E+05 days
4137     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4139     Time Step No. = 507 Elapsed Time = 7.385093E+05 days
4140     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4142     Time Step No. = 508 Elapsed Time = 7.405093E+05 days
4143     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.07 ( 1.07 sec) Binary
4145     Time Step No. = 509 Elapsed Time = 7.425093E+05 days
4146     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4148     Time Step No. = 510 Elapsed Time = 7.445093E+05 days
4149     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4151     Time Step No. = 511 Elapsed Time = 7.465093E+05 days
4152     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4154     Time Step No. = 512 Elapsed Time = 7.485093E+05 days
4155     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4157     Time Step No. = 513 Elapsed Time = 7.505093E+05 days
4158     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.08 ( 1.08 sec) Binary
4160     Time Step No. = 514 Elapsed Time = 7.525093E+05 days
4161     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4163     Time Step No. = 515 Elapsed Time = 7.545093E+05 days
4164     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4166     Time Step No. = 516 Elapsed Time = 7.565093E+05 days
4167     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4169     Time Step No. = 517 Elapsed Time = 7.585093E+05 days
4170     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4172     Time Step No. = 518 Elapsed Time = 7.605093E+05 days
4173     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.09 ( 1.09 sec) Binary
4175     Time Step No. = 519 Elapsed Time = 7.625093E+05 days
4176     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
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4178    Time Step No. = 520 Elapsed Time = 7.645093E+05 days
4179    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4181    Time Step No. = 521 Elapsed Time = 7.665093E+05 days
4182    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4184    Time Step No. = 522 Elapsed Time = 7.685093E+05 days
4185    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4187    Time Step No. = 523 Elapsed Time = 7.705093E+05 days
4188    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4190    Time Step No. = 524 Elapsed Time = 7.725093E+05 days
4191    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4193    Time Step No. = 525 Elapsed Time = 7.745093E+05 days
4194    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4196    Time Step No. = 526 Elapsed Time = 7.765093E+05 days
4197    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4199    Time Step No. = 527 Elapsed Time = 7.785093E+05 days
4200    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4202    Time Step No. = 528 Elapsed Time = 7.805093E+05 days
4203    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.10 ( 1.10 sec) Binary
4205    Time Step No. = 529 Elapsed Time = 7.825093E+05 days
4206    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4208    Time Step No. = 530 Elapsed Time = 7.845093E+05 days
4209    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4211    Time Step No. = 531 Elapsed Time = 7.865093E+05 days
4212    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4214    Time Step No. = 532 Elapsed Time = 7.885093E+05 days
4215    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4217    Time Step No. = 533 Elapsed Time = 7.905093E+05 days
4218    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4220    Time Step No. = 534 Elapsed Time = 7.925093E+05 days
4221    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.11 ( 1.11 sec) Binary
4223    Time Step No. = 535 Elapsed Time = 7.945093E+05 days
4224    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4226    Time Step No. = 536 Elapsed Time = 7.965093E+05 days
4227    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4229    Time Step No. = 537 Elapsed Time = 7.985093E+05 days
4230    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4232    Time Step No. = 538 Elapsed Time = 8.005093E+05 days
4233    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4235    Time Step No. = 539 Elapsed Time = 8.025093E+05 days
4236    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.12 ( 1.12 sec) Binary
4238    Time Step No. = 540 Elapsed Time = 8.045093E+05 days
4239    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4241    Time Step No. = 541 Elapsed Time = 8.065093E+05 days
4242    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4244    Time Step No. = 542 Elapsed Time = 8.085093E+05 days
4245    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4247    Time Step No. = 543 Elapsed Time = 8.105093E+05 days
4248    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4250    Time Step No. = 544 Elapsed Time = 8.125093E+05 days
4251    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4253    Time Step No. = 545 Elapsed Time = 8.145093E+05 days
4254    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.13 ( 1.13 sec) Binary
4256    Time Step No. = 546 Elapsed Time = 8.165093E+05 days
4257    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4259    Time Step No. = 547 Elapsed Time = 8.185093E+05 days
4260    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4262    Time Step No. = 548 Elapsed Time = 8.205093E+05 days
4263    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4265    Time Step No. = 549 Elapsed Time = 8.225093E+05 days
4266    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4268    Time Step No. = 550 Elapsed Time = 8.245093E+05 days
4269    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.14 ( 1.14 sec) Binary
4271    Time Step No. = 551 Elapsed Time = 8.265093E+05 days
4272    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4274    Time Step No. = 552 Elapsed Time = 8.285093E+05 days
4275    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4277    Time Step No. = 553 Elapsed Time = 8.305093E+05 days
4278    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4280    Time Step No. = 554 Elapsed Time = 8.325093E+05 days
4281    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4283    Time Step No. = 555 Elapsed Time = 8.345093E+05 days
4284    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.15 ( 1.15 sec) Binary
4286    Time Step No. = 556 Elapsed Time = 8.365093E+05 days
4287    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4289    Time Step No. = 557 Elapsed Time = 8.385093E+05 days
4290    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
```

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4292    Time Step No. = 558 Elapsed Time = 8.405093E+05 days
4293    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4295    Time Step No. = 559 Elapsed Time = 8.425093E+05 days
4296    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4298    Time Step No. = 560 Elapsed Time = 8.445093E+05 days
4299    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4301    Time Step No. = 561 Elapsed Time = 8.465093E+05 days
4302    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.16 ( 1.16 sec) Binary
4304    Time Step No. = 562 Elapsed Time = 8.485093E+05 days
4305    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4307    Time Step No. = 563 Elapsed Time = 8.505093E+05 days
4308    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4310    Time Step No. = 564 Elapsed Time = 8.525093E+05 days
4311    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4313    Time Step No. = 565 Elapsed Time = 8.545093E+05 days
4314    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4316    Time Step No. = 566 Elapsed Time = 8.565093E+05 days
4317    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.17 ( 1.17 sec) Binary
4319    Time Step No. = 567 Elapsed Time = 8.585093E+05 days
4320    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4322    Time Step No. = 568 Elapsed Time = 8.605093E+05 days
4323    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4325    Time Step No. = 569 Elapsed Time = 8.625093E+05 days
4326    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4328    Time Step No. = 570 Elapsed Time = 8.645093E+05 days
4329    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4331    Time Step No. = 571 Elapsed Time = 8.665093E+05 days
4332    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.18 ( 1.18 sec) Binary
4334    Time Step No. = 572 Elapsed Time = 8.685093E+05 days
4335    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4337    Time Step No. = 573 Elapsed Time = 8.705093E+05 days
4338    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4340    Time Step No. = 574 Elapsed Time = 8.725093E+05 days
4341    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4343    Time Step No. = 575 Elapsed Time = 8.745093E+05 days
4344    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4346    Time Step No. = 576 Elapsed Time = 8.765093E+05 days
4347    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4349    Time Step No. = 577 Elapsed Time = 8.785093E+05 days
4350    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.19 ( 1.19 sec) Binary
4352    Time Step No. = 578 Elapsed Time = 8.805093E+05 days
4353    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4355    Time Step No. = 579 Elapsed Time = 8.825093E+05 days
4356    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4358    Time Step No. = 580 Elapsed Time = 8.845093E+05 days
4359    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4361    Time Step No. = 581 Elapsed Time = 8.865093E+05 days
4362    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.20 ( 1.20 sec) Binary
4364    Time Step No. = 582 Elapsed Time = 8.885093E+05 days
4365    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4367    Time Step No. = 583 Elapsed Time = 8.905093E+05 days
4368    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4370    Time Step No. = 584 Elapsed Time = 8.925093E+05 days
4371    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4373    Time Step No. = 585 Elapsed Time = 8.945093E+05 days
4374    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4376    Time Step No. = 586 Elapsed Time = 8.965093E+05 days
4377    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4379    Time Step No. = 587 Elapsed Time = 8.985093E+05 days
4380    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4382    Time Step No. = 588 Elapsed Time = 9.005093E+05 days
4383    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.21 ( 1.21 sec) Binary
4385    Time Step No. = 589 Elapsed Time = 9.025093E+05 days
4386    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4388    Time Step No. = 590 Elapsed Time = 9.045093E+05 days
4389    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4391    Time Step No. = 591 Elapsed Time = 9.065093E+05 days
4392    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4394    Time Step No. = 592 Elapsed Time = 9.085093E+05 days
4395    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4397    Time Step No. = 593 Elapsed Time = 9.105093E+05 days
4398    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4400    Time Step No. = 594 Elapsed Time = 9.125093E+05 days
4401    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4403    Time Step No. = 595 Elapsed Time = 9.145093E+05 days
4404    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
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4406    Time Step No. = 596 Elapsed Time = 9.165093E+05 days
4407    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4409    Time Step No. = 597 Elapsed Time = 9.185093E+05 days
4410    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4412    Time Step No. = 598 Elapsed Time = 9.205093E+05 days
4413    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.22 ( 1.22 sec) Binary
4415    Time Step No. = 599 Elapsed Time = 9.225093E+05 days
4416    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4418    Time Step No. = 600 Elapsed Time = 9.245093E+05 days
4419    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4421    Time Step No. = 601 Elapsed Time = 9.265093E+05 days
4422    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4424    Time Step No. = 602 Elapsed Time = 9.285093E+05 days
4425    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4427    Time Step No. = 603 Elapsed Time = 9.305093E+05 days
4428    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.23 ( 1.23 sec) Binary
4430    Time Step No. = 604 Elapsed Time = 9.325093E+05 days
4431    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4433    Time Step No. = 605 Elapsed Time = 9.345093E+05 days
4434    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4436    Time Step No. = 606 Elapsed Time = 9.365093E+05 days
4437    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4439    Time Step No. = 607 Elapsed Time = 9.385093E+05 days
4440    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4442    Time Step No. = 608 Elapsed Time = 9.405093E+05 days
4443    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
4445    Time Step No. = 609 Elapsed Time = 9.425093E+05 days
4446    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4448    Time Step No. = 610 Elapsed Time = 9.445093E+05 days
4449    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4451    Time Step No. = 611 Elapsed Time = 9.465093E+05 days
4452    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4454    Time Step No. = 612 Elapsed Time = 9.485093E+05 days
4455    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4457    Time Step No. = 613 Elapsed Time = 9.505093E+05 days
4458    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4460    Time Step No. = 614 Elapsed Time = 9.525093E+05 days
4461    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4463    Time Step No. = 615 Elapsed Time = 9.545093E+05 days
4464    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
4466    Time Step No. = 616 Elapsed Time = 9.565093E+05 days
4467    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4469    Time Step No. = 617 Elapsed Time = 9.585093E+05 days
4470    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4472    Time Step No. = 618 Elapsed Time = 9.605093E+05 days
4473    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4475    Time Step No. = 619 Elapsed Time = 9.625093E+05 days
4476    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4478    Time Step No. = 620 Elapsed Time = 9.645093E+05 days
4479    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4481    Time Step No. = 621 Elapsed Time = 9.665093E+05 days
4482    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4484    Time Step No. = 622 Elapsed Time = 9.685093E+05 days
4485    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4487    Time Step No. = 623 Elapsed Time = 9.705093E+05 days
4488    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4490    Time Step No. = 624 Elapsed Time = 9.725093E+05 days
4491    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4493    Time Step No. = 625 Elapsed Time = 9.745093E+05 days
4494    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4496    Time Step No. = 626 Elapsed Time = 9.765093E+05 days
4497    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4499    Time Step No. = 627 Elapsed Time = 9.785093E+05 days
4500    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4502    Time Step No. = 628 Elapsed Time = 9.805093E+05 days
4503    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4505    Time Step No. = 629 Elapsed Time = 9.825093E+05 days
4506    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4508    Time Step No. = 630 Elapsed Time = 9.845093E+05 days
4509    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4511    Time Step No. = 631 Elapsed Time = 9.865093E+05 days
4512    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4514    Time Step No. = 632 Elapsed Time = 9.885093E+05 days
4515    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4517    Time Step No. = 633 Elapsed Time = 9.905093E+05 days
4518    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
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4520    Time Step No. = 634 Elapsed Time = 9.925093E+05 days
4521    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4523    Time Step No. = 635 Elapsed Time = 9.945093E+05 days
4524    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4526    Time Step No. = 636 Elapsed Time = 9.965093E+05 days
4527    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4529    Time Step No. = 637 Elapsed Time = 9.985093E+05 days
4530    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4532    Time Step No. = 638 Elapsed Time = 1.000509E+06 days
4533    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
4535    Time Step No. = 639 Elapsed Time = 1.002509E+06 days
4536    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4538    Time Step No. = 640 Elapsed Time = 1.004509E+06 days
4539    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4541    Time Step No. = 641 Elapsed Time = 1.006509E+06 days
4542    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4544    Time Step No. = 642 Elapsed Time = 1.008509E+06 days
4545    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4547    Time Step No. = 643 Elapsed Time = 1.010509E+06 days
4548    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4550    Time Step No. = 644 Elapsed Time = 1.012509E+06 days
4551    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4553    Time Step No. = 645 Elapsed Time = 1.014509E+06 days
4554    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4556    Time Step No. = 646 Elapsed Time = 1.016509E+06 days
4557    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4559    Time Step No. = 647 Elapsed Time = 1.018509E+06 days
4560    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4562    Time Step No. = 648 Elapsed Time = 1.020509E+06 days
4563    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4565    Time Step No. = 649 Elapsed Time = 1.022509E+06 days
4566    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4568    Time Step No. = 650 Elapsed Time = 1.024509E+06 days
4569    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4571    Time Step No. = 651 Elapsed Time = 1.026509E+06 days
4572    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
4574    Time Step No. = 652 Elapsed Time = 1.028509E+06 days
4575    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4577    Time Step No. = 653 Elapsed Time = 1.030509E+06 days
4578    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4580    Time Step No. = 654 Elapsed Time = 1.032509E+06 days
4581    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4583    Time Step No. = 655 Elapsed Time = 1.034509E+06 days
4584    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4586    Time Step No. = 656 Elapsed Time = 1.036509E+06 days
4587    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
4589    Time Step No. = 657 Elapsed Time = 1.038509E+06 days
4590    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4592    Time Step No. = 658 Elapsed Time = 1.040509E+06 days
4593    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4595    Time Step No. = 659 Elapsed Time = 1.042509E+06 days
4596    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4598    Time Step No. = 660 Elapsed Time = 1.044509E+06 days
4599    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4601    Time Step No. = 661 Elapsed Time = 1.046509E+06 days
4602    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4604    Time Step No. = 662 Elapsed Time = 1.048509E+06 days
4605    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4607    Time Step No. = 663 Elapsed Time = 1.050509E+06 days
4608    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
4610    Time Step No. = 664 Elapsed Time = 1.052509E+06 days
4611    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4613    Time Step No. = 665 Elapsed Time = 1.054509E+06 days
4614    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4616    Time Step No. = 666 Elapsed Time = 1.056509E+06 days
4617    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4619    Time Step No. = 667 Elapsed Time = 1.058509E+06 days
4620    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4622    Time Step No. = 668 Elapsed Time = 1.060509E+06 days
4623    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4625    Time Step No. = 669 Elapsed Time = 1.062509E+06 days
4626    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
4628    Time Step No. = 670 Elapsed Time = 1.064509E+06 days
4629    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
4631    Time Step No. = 671 Elapsed Time = 1.066509E+06 days
4632    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
```

```
 4634     Time Step No. = 672 Elapsed Time = 1.068509E+06 days
 4635     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4637     Time Step No. = 673 Elapsed Time = 1.070509E+06 days
 4638     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4640     Time Step No. = 674 Elapsed Time = 1.072509E+06 days
 4641     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
 4643     Time Step No. = 675 Elapsed Time = 1.074509E+06 days
 4644     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4646     Time Step No. = 676 Elapsed Time = 1.076509E+06 days
 4647     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4649     Time Step No. = 677 Elapsed Time = 1.078509E+06 days
 4650     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4652     Time Step No. = 678 Elapsed Time = 1.080509E+06 days
 4653     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4655     Time Step No. = 679 Elapsed Time = 1.082509E+06 days
 4656     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4658     Time Step No. = 680 Elapsed Time = 1.084509E+06 days
 4659     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4661     Time Step No. = 681 Elapsed Time = 1.086509E+06 days
 4662     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4664     Time Step No. = 682 Elapsed Time = 1.088509E+06 days
 4665     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4667     Time Step No. = 683 Elapsed Time = 1.090509E+06 days
 4668     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4670     Time Step No. = 684 Elapsed Time = 1.092509E+06 days
 4671     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4673     Time Step No. = 685 Elapsed Time = 1.094509E+06 days
 4674     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
 4677    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 4686     CPU Time (total for run) = 1.23 sec = 0.00034 hr
 4687    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 4686     CPU Time (total for run) = 1.35 sec = 0.00038 hr
 4687    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 4882     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) ASCII
 4884     Time Step No. = 686 Elapsed Time = 1.095752E+06 days
 4885     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4887     Time Step No. = 687 Elapsed Time = 1.097752E+06 days
 4888     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4890     Time Step No. = 688 Elapsed Time = 1.099752E+06 days
 4891     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4893     Time Step No. = 689 Elapsed Time = 1.101752E+06 days
 4894     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4896     Time Step No. = 690 Elapsed Time = 1.103752E+06 days
 4897     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4899     Time Step No. = 691 Elapsed Time = 1.105752E+06 days
 4900     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4902     Time Step No. = 692 Elapsed Time = 1.107752E+06 days
 4903     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.24 ( 1.24 sec) Binary
 4905     Time Step No. = 693 Elapsed Time = 1.109752E+06 days
 4906     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4908     Time Step No. = 694 Elapsed Time = 1.111752E+06 days
 4909     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4911     Time Step No. = 695 Elapsed Time = 1.113752E+06 days
 4912     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4914     Time Step No. = 696 Elapsed Time = 1.115752E+06 days
 4915     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4917     Time Step No. = 697 Elapsed Time = 1.117752E+06 days
 4918     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4920     Time Step No. = 698 Elapsed Time = 1.119752E+06 days
 4921     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4923     Time Step No. = 699 Elapsed Time = 1.121752E+06 days
 4924     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.25 ( 1.25 sec) Binary
 4926     Time Step No. = 700 Elapsed Time = 1.123752E+06 days
 4927     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 4929     Time Step No. = 701 Elapsed Time = 1.125752E+06 days
 4930     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
 4932     Time Step No. = 702 Elapsed Time = 1.127752E+06 days
 4933     Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
```

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4935    Time Step No. = 703 Elapsed Time = 1.129752E+06 days
4936    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4938    Time Step No. = 704 Elapsed Time = 1.131752E+06 days
4939    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.26 ( 1.26 sec) Binary
4941    Time Step No. = 705 Elapsed Time = 1.133752E+06 days
4942    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4944    Time Step No. = 706 Elapsed Time = 1.135752E+06 days
4945    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4947    Time Step No. = 707 Elapsed Time = 1.137752E+06 days
4948    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4950    Time Step No. = 708 Elapsed Time = 1.139752E+06 days
4951    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4953    Time Step No. = 709 Elapsed Time = 1.141752E+06 days
4954    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4956    Time Step No. = 710 Elapsed Time = 1.143752E+06 days
4957    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4959    Time Step No. = 711 Elapsed Time = 1.145752E+06 days
4960    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4962    Time Step No. = 712 Elapsed Time = 1.147752E+06 days
4963    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4965    Time Step No. = 713 Elapsed Time = 1.149752E+06 days
4966    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4968    Time Step No. = 714 Elapsed Time = 1.151752E+06 days
4969    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4971    Time Step No. = 715 Elapsed Time = 1.153752E+06 days
4972    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4974    Time Step No. = 716 Elapsed Time = 1.155752E+06 days
4975    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4977    Time Step No. = 717 Elapsed Time = 1.157752E+06 days
4978    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4980    Time Step No. = 718 Elapsed Time = 1.159752E+06 days
4981    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.27 ( 1.27 sec) Binary
4983    Time Step No. = 719 Elapsed Time = 1.161752E+06 days
4984    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4986    Time Step No. = 720 Elapsed Time = 1.163752E+06 days
4987    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4989    Time Step No. = 721 Elapsed Time = 1.165752E+06 days
4990    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4992    Time Step No. = 722 Elapsed Time = 1.167752E+06 days
4993    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4995    Time Step No. = 723 Elapsed Time = 1.169752E+06 days
4996    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
4998    Time Step No. = 724 Elapsed Time = 1.171752E+06 days
4999    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5001    Time Step No. = 725 Elapsed Time = 1.173752E+06 days
5002    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5004    Time Step No. = 726 Elapsed Time = 1.175752E+06 days
5005    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5007    Time Step No. = 727 Elapsed Time = 1.177752E+06 days
5008    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5010    Time Step No. = 728 Elapsed Time = 1.179752E+06 days
5011    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5013    Time Step No. = 729 Elapsed Time = 1.181752E+06 days
5014    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5016    Time Step No. = 730 Elapsed Time = 1.183752E+06 days
5017    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5019    Time Step No. = 731 Elapsed Time = 1.185752E+06 days
5020    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5022    Time Step No. = 732 Elapsed Time = 1.187752E+06 days
5023    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5025    Time Step No. = 733 Elapsed Time = 1.189752E+06 days
5026    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5028    Time Step No. = 734 Elapsed Time = 1.191752E+06 days
5029    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.28 ( 1.28 sec) Binary
5031    Time Step No. = 735 Elapsed Time = 1.193752E+06 days
5032    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
5034    Time Step No. = 736 Elapsed Time = 1.195752E+06 days
5035    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
5037    Time Step No. = 737 Elapsed Time = 1.197752E+06 days
5038    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
5040    Time Step No. = 738 Elapsed Time = 1.199752E+06 days
5041    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
5043    Time Step No. = 739 Elapsed Time = 1.201752E+06 days
5044    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
5046    Time Step No. = 740 Elapsed Time = 1.203752E+06 days
5047    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.29 ( 1.29 sec) Binary
```

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5049    Time Step No. = 741 Elapsed Time = 1.205752E+06 days
5050    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5052    Time Step No. = 742 Elapsed Time = 1.207752E+06 days
5053    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5055    Time Step No. = 743 Elapsed Time = 1.209752E+06 days
5056    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5058    Time Step No. = 744 Elapsed Time = 1.211752E+06 days
5059    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5061    Time Step No. = 745 Elapsed Time = 1.213752E+06 days
5062    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5064    Time Step No. = 746 Elapsed Time = 1.215752E+06 days
5065    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.30 ( 1.30 sec) Binary
5067    Time Step No. = 747 Elapsed Time = 1.217752E+06 days
5068    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5070    Time Step No. = 748 Elapsed Time = 1.219752E+06 days
5071    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5073    Time Step No. = 749 Elapsed Time = 1.221752E+06 days
5074    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5076    Time Step No. = 750 Elapsed Time = 1.223752E+06 days
5077    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5079    Time Step No. = 751 Elapsed Time = 1.225752E+06 days
5080    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5082    Time Step No. = 752 Elapsed Time = 1.227752E+06 days
5083    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.31 ( 1.31 sec) Binary
5085    Time Step No. = 753 Elapsed Time = 1.229752E+06 days
5086    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5088    Time Step No. = 754 Elapsed Time = 1.231752E+06 days
5089    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5091    Time Step No. = 755 Elapsed Time = 1.233752E+06 days
5092    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5094    Time Step No. = 756 Elapsed Time = 1.235752E+06 days
5095    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5097    Time Step No. = 757 Elapsed Time = 1.237752E+06 days
5098    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5100    Time Step No. = 758 Elapsed Time = 1.239752E+06 days
5101    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5103    Time Step No. = 759 Elapsed Time = 1.241752E+06 days
5104    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5106    Time Step No. = 760 Elapsed Time = 1.243752E+06 days
5107    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5109    Time Step No. = 761 Elapsed Time = 1.245752E+06 days
5110    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5112    Time Step No. = 762 Elapsed Time = 1.247752E+06 days
5113    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5115    Time Step No. = 763 Elapsed Time = 1.249752E+06 days
5116    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5118    Time Step No. = 764 Elapsed Time = 1.251752E+06 days
5119    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5121    Time Step No. = 765 Elapsed Time = 1.253752E+06 days
5122    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5124    Time Step No. = 766 Elapsed Time = 1.255752E+06 days
5125    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5127    Time Step No. = 767 Elapsed Time = 1.257752E+06 days
5128    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5130    Time Step No. = 768 Elapsed Time = 1.259752E+06 days
5131    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5133    Time Step No. = 769 Elapsed Time = 1.261752E+06 days
5134    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5136    Time Step No. = 770 Elapsed Time = 1.263752E+06 days
5137    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5139    Time Step No. = 771 Elapsed Time = 1.265752E+06 days
5140    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.32 ( 1.32 sec) Binary
5142    Time Step No. = 772 Elapsed Time = 1.267752E+06 days
5143    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5145    Time Step No. = 773 Elapsed Time = 1.269752E+06 days
5146    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5148    Time Step No. = 774 Elapsed Time = 1.271752E+06 days
5149    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5151    Time Step No. = 775 Elapsed Time = 1.273752E+06 days
5152    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5154    Time Step No. = 776 Elapsed Time = 1.275752E+06 days
5155    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5157    Time Step No. = 777 Elapsed Time = 1.277752E+06 days
5158    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5160    Time Step No. = 778 Elapsed Time = 1.279752E+06 days
5161    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
```

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5163  Time Step No. = 779 Elapsed Time = 1.281752E+06 days
5164  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5166  Time Step No. = 780 Elapsed Time = 1.283752E+06 days
5167  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5169  Time Step No. = 781 Elapsed Time = 1.285752E+06 days
5170  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5172  Time Step No. = 782 Elapsed Time = 1.287752E+06 days
5173  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5175  Time Step No. = 783 Elapsed Time = 1.289752E+06 days
5176  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5178  Time Step No. = 784 Elapsed Time = 1.291752E+06 days
5179  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5181  Time Step No. = 785 Elapsed Time = 1.293752E+06 days
5182  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5184  Time Step No. = 786 Elapsed Time = 1.295752E+06 days
5185  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.33 ( 1.33 sec) Binary
5187  Time Step No. = 787 Elapsed Time = 1.297752E+06 days
5188  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5190  Time Step No. = 788 Elapsed Time = 1.299752E+06 days
5191  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5193  Time Step No. = 789 Elapsed Time = 1.301752E+06 days
5194  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5196  Time Step No. = 790 Elapsed Time = 1.303752E+06 days
5197  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5199  Time Step No. = 791 Elapsed Time = 1.305752E+06 days
5200  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5202  Time Step No. = 792 Elapsed Time = 1.307752E+06 days
5203  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.34 ( 1.34 sec) Binary
5205  Time Step No. = 793 Elapsed Time = 1.309752E+06 days
5206  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5208  Time Step No. = 794 Elapsed Time = 1.311752E+06 days
5209  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5211  Time Step No. = 795 Elapsed Time = 1.313752E+06 days
5212  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5214  Time Step No. = 796 Elapsed Time = 1.315752E+06 days
5215  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5217  Time Step No. = 797 Elapsed Time = 1.317752E+06 days
5218  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5220  Time Step No. = 798 Elapsed Time = 1.319752E+06 days
5221  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5223  Time Step No. = 799 Elapsed Time = 1.321752E+06 days
5224  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.35 ( 1.35 sec) Binary
5226  Time Step No. = 800 Elapsed Time = 1.323752E+06 days
5227  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5229  Time Step No. = 801 Elapsed Time = 1.325752E+06 days
5230  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5232  Time Step No. = 802 Elapsed Time = 1.327752E+06 days
5233  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5235  Time Step No. = 803 Elapsed Time = 1.329752E+06 days
5236  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5238  Time Step No. = 804 Elapsed Time = 1.331752E+06 days
5239  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5241  Time Step No. = 805 Elapsed Time = 1.333752E+06 days
5242  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
5244  Time Step No. = 806 Elapsed Time = 1.335752E+06 days
5245  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5247  Time Step No. = 807 Elapsed Time = 1.337752E+06 days
5248  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5250  Time Step No. = 808 Elapsed Time = 1.339752E+06 days
5251  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5253  Time Step No. = 809 Elapsed Time = 1.341752E+06 days
5254  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5256  Time Step No. = 810 Elapsed Time = 1.343752E+06 days
5257  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5259  Time Step No. = 811 Elapsed Time = 1.345752E+06 days
5260  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
5262  Time Step No. = 812 Elapsed Time = 1.347752E+06 days
5263  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5265  Time Step No. = 813 Elapsed Time = 1.349752E+06 days
5266  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5268  Time Step No. = 814 Elapsed Time = 1.351752E+06 days
5269  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5271  Time Step No. = 815 Elapsed Time = 1.353752E+06 days
5272  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5274  Time Step No. = 816 Elapsed Time = 1.355752E+06 days
5275  Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
```

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5277 Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5280 Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
5283 Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5286 Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5289 Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5292 Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5295 Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5298 Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
5301 Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5304 Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5307 Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5310 Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5313 Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5316 Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
5319 Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5322 Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5325 Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5328 Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5331 Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5334 Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5337 Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
5340 Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5343 Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5346 Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5349 Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5352 Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5355 Time Step No. = 843 Elapsed Time = 1.409752E+06 days
5356 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5358 Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5361 Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5364 Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5367 Time Step No. = 847 Elapsed Time = 1.417752E+06 days
5368 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5370 Time Step No. = 848 Elapsed Time = 1.419752E+06 days
5371 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5373 Time Step No. = 849 Elapsed Time = 1.421752E+06 days
5374 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5376 Time Step No. = 850 Elapsed Time = 1.423752E+06 days
5377 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5379 Time Step No. = 851 Elapsed Time = 1.425752E+06 days
5380 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5382 Time Step No. = 852 Elapsed Time = 1.427752E+06 days
5383 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5385 Time Step No. = 853 Elapsed Time = 1.429752E+06 days
5386 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5388 Time Step No. = 854 Elapsed Time = 1.431752E+06 days
5389 Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
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5391    Time Step No. = 855 Elapsed Time = 1.433752E+06 days
5392    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5394    Time Step No. = 856 Elapsed Time = 1.435752E+06 days
5395    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5397    Time Step No. = 857 Elapsed Time = 1.437752E+06 days
5398    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5400    Time Step No. = 858 Elapsed Time = 1.439752E+06 days
5401    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5403    Time Step No. = 859 Elapsed Time = 1.441752E+06 days
5404    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5406    Time Step No. = 860 Elapsed Time = 1.443752E+06 days
5407    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5409    Time Step No. = 861 Elapsed Time = 1.445752E+06 days
5410    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5412    Time Step No. = 862 Elapsed Time = 1.447752E+06 days
5413    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5415    Time Step No. = 863 Elapsed Time = 1.449752E+06 days
5416    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5418    Time Step No. = 864 Elapsed Time = 1.451752E+06 days
5419    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5421    Time Step No. = 865 Elapsed Time = 1.453752E+06 days
5422    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5424    Time Step No. = 866 Elapsed Time = 1.455752E+06 days
5425    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5427    Time Step No. = 867 Elapsed Time = 1.457752E+06 days
5428    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5430    Time Step No. = 868 Elapsed Time = 1.459752E+06 days
5431    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5433    Time Step No. = 869 Elapsed Time = 1.461752E+06 days
5434    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5436    Time Step No. = 870 Elapsed Time = 1.463752E+06 days
5437    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5439    Time Step No. = 871 Elapsed Time = 1.465752E+06 days
5440    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5442    Time Step No. = 872 Elapsed Time = 1.467752E+06 days
5443    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5445    Time Step No. = 873 Elapsed Time = 1.469752E+06 days
5446    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5448    Time Step No. = 874 Elapsed Time = 1.471752E+06 days
5449    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5451    Time Step No. = 875 Elapsed Time = 1.473752E+06 days
5452    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5454    Time Step No. = 876 Elapsed Time = 1.475752E+06 days
5455    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5457    Time Step No. = 877 Elapsed Time = 1.477752E+06 days
5458    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5460    Time Step No. = 878 Elapsed Time = 1.479752E+06 days
5461    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5463    Time Step No. = 879 Elapsed Time = 1.481752E+06 days
5464    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5466    Time Step No. = 880 Elapsed Time = 1.483752E+06 days
5467    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5469    Time Step No. = 881 Elapsed Time = 1.485752E+06 days
5470    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5472    Time Step No. = 882 Elapsed Time = 1.487752E+06 days
5473    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5475    Time Step No. = 883 Elapsed Time = 1.489752E+06 days
5476    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5478    Time Step No. = 884 Elapsed Time = 1.491752E+06 days
5479    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5481    Time Step No. = 885 Elapsed Time = 1.493752E+06 days
5482    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5484    Time Step No. = 886 Elapsed Time = 1.495752E+06 days
5485    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5487    Time Step No. = 887 Elapsed Time = 1.497752E+06 days
5488    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5490    Time Step No. = 888 Elapsed Time = 1.499752E+06 days
5491    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5493    Time Step No. = 889 Elapsed Time = 1.501752E+06 days
5494    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5496    Time Step No. = 890 Elapsed Time = 1.503752E+06 days
5497    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5499    Time Step No. = 891 Elapsed Time = 1.505752E+06 days
5500    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5502    Time Step No. = 892 Elapsed Time = 1.507752E+06 days
5503    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
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5505   Time Step No. = 893 Elapsed Time = 1.509752E+06 days
5506   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5508   Time Step No. = 894 Elapsed Time = 1.511752E+06 days
5509   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5511   Time Step No. = 895 Elapsed Time = 1.513752E+06 days
5512   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5514   Time Step No. = 896 Elapsed Time = 1.515752E+06 days
5515   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5517   Time Step No. = 897 Elapsed Time = 1.517752E+06 days
5518   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5520   Time Step No. = 898 Elapsed Time = 1.519752E+06 days
5521   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5523   Time Step No. = 899 Elapsed Time = 1.521752E+06 days
5524   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5526   Time Step No. = 900 Elapsed Time = 1.523752E+06 days
5527   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5529   Time Step No. = 901 Elapsed Time = 1.525752E+06 days
5530   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5532   Time Step No. = 902 Elapsed Time = 1.527752E+06 days
5533   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5535   Time Step No. = 903 Elapsed Time = 1.529752E+06 days
5536   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5538   Time Step No. = 904 Elapsed Time = 1.531752E+06 days
5539   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5541   Time Step No. = 905 Elapsed Time = 1.533752E+06 days
5542   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5544   Time Step No. = 906 Elapsed Time = 1.535752E+06 days
5545   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5547   Time Step No. = 907 Elapsed Time = 1.537752E+06 days
5548   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5550   Time Step No. = 908 Elapsed Time = 1.539752E+06 days
5551   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5553   Time Step No. = 909 Elapsed Time = 1.541752E+06 days
5554   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5556   Time Step No. = 910 Elapsed Time = 1.543752E+06 days
5557   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5559   Time Step No. = 911 Elapsed Time = 1.545752E+06 days
5560   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5562   Time Step No. = 912 Elapsed Time = 1.547752E+06 days
5563   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5565   Time Step No. = 913 Elapsed Time = 1.549752E+06 days
5566   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5568   Time Step No. = 914 Elapsed Time = 1.551752E+06 days
5569   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5571   Time Step No. = 915 Elapsed Time = 1.553752E+06 days
5572   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5574   Time Step No. = 916 Elapsed Time = 1.555752E+06 days
5575   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5577   Time Step No. = 917 Elapsed Time = 1.557752E+06 days
5578   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5580   Time Step No. = 918 Elapsed Time = 1.559752E+06 days
5581   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5583   Time Step No. = 919 Elapsed Time = 1.561752E+06 days
5584   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5586   Time Step No. = 920 Elapsed Time = 1.563752E+06 days
5587   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5589   Time Step No. = 921 Elapsed Time = 1.565752E+06 days
5590   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5592   Time Step No. = 922 Elapsed Time = 1.567752E+06 days
5593   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5595   Time Step No. = 923 Elapsed Time = 1.569752E+06 days
5596   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5598   Time Step No. = 924 Elapsed Time = 1.571752E+06 days
5599   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5601   Time Step No. = 925 Elapsed Time = 1.573752E+06 days
5602   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5604   Time Step No. = 926 Elapsed Time = 1.575752E+06 days
5605   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5607   Time Step No. = 927 Elapsed Time = 1.577752E+06 days
5608   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5610   Time Step No. = 928 Elapsed Time = 1.579752E+06 days
5611   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5613   Time Step No. = 929 Elapsed Time = 1.581752E+06 days
5614   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5616   Time Step No. = 930 Elapsed Time = 1.583752E+06 days
5617   Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
```

```
5619    Time Step No. = 931 Elapsed Time = 1.585752E+06 days
5620    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5622    Time Step No. = 932 Elapsed Time = 1.587752E+06 days
5623    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5625    Time Step No. = 933 Elapsed Time = 1.589752E+06 days
5626    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5628    Time Step No. = 934 Elapsed Time = 1.591752E+06 days
5629    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5631    Time Step No. = 935 Elapsed Time = 1.593752E+06 days
5632    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5634    Time Step No. = 936 Elapsed Time = 1.595752E+06 days
5635    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5637    Time Step No. = 937 Elapsed Time = 1.597752E+06 days
5638    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5640    Time Step No. = 938 Elapsed Time = 1.599752E+06 days
5641    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5643    Time Step No. = 939 Elapsed Time = 1.601752E+06 days
5644    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5646    Time Step No. = 940 Elapsed Time = 1.603752E+06 days
5647    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5649    Time Step No. = 941 Elapsed Time = 1.605752E+06 days
5650    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5652    Time Step No. = 942 Elapsed Time = 1.607752E+06 days
5653    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5655    Time Step No. = 943 Elapsed Time = 1.609752E+06 days
5656    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5658    Time Step No. = 944 Elapsed Time = 1.611752E+06 days
5659    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5661    Time Step No. = 945 Elapsed Time = 1.613752E+06 days
5662    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5664    Time Step No. = 946 Elapsed Time = 1.615752E+06 days
5665    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5667    Time Step No. = 947 Elapsed Time = 1.617752E+06 days
5668    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5670    Time Step No. = 948 Elapsed Time = 1.619752E+06 days
5671    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5673    Time Step No. = 949 Elapsed Time = 1.621752E+06 days
5674    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5676    Time Step No. = 950 Elapsed Time = 1.623752E+06 days
5677    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5679    Time Step No. = 951 Elapsed Time = 1.625752E+06 days
5680    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5682    Time Step No. = 952 Elapsed Time = 1.627752E+06 days
5683    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5685    Time Step No. = 953 Elapsed Time = 1.629752E+06 days
5686    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5688    Time Step No. = 954 Elapsed Time = 1.631752E+06 days
5689    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5691    Time Step No. = 955 Elapsed Time = 1.633752E+06 days
5692    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5694    Time Step No. = 956 Elapsed Time = 1.635752E+06 days
5695    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5697    Time Step No. = 957 Elapsed Time = 1.637752E+06 days
5698    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5700    Time Step No. = 958 Elapsed Time = 1.639752E+06 days
5701    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5703    Time Step No. = 959 Elapsed Time = 1.641752E+06 days
5704    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5706    Time Step No. = 960 Elapsed Time = 1.643752E+06 days
5707    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5709    Time Step No. = 961 Elapsed Time = 1.645752E+06 days
5710    Date: 02/15/07 Time: 12:58:18 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5712    Time Step No. = 962 Elapsed Time = 1.647752E+06 days
5713    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5715    Time Step No. = 963 Elapsed Time = 1.649752E+06 days
5716    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5718    Time Step No. = 964 Elapsed Time = 1.651752E+06 days
5719    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5721    Time Step No. = 965 Elapsed Time = 1.653752E+06 days
5722    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5724    Time Step No. = 966 Elapsed Time = 1.655752E+06 days
5725    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5727    Time Step No. = 967 Elapsed Time = 1.657752E+06 days
5728    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5730    Time Step No. = 968 Elapsed Time = 1.659752E+06 days
5731    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
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5733    Time Step No. = 969 Elapsed Time = 1.661752E+06 days
5734    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5736    Time Step No. = 970 Elapsed Time = 1.663752E+06 days
5737    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5739    Time Step No. = 971 Elapsed Time = 1.665752E+06 days
5740    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5742    Time Step No. = 972 Elapsed Time = 1.667752E+06 days
5743    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5745    Time Step No. = 973 Elapsed Time = 1.669752E+06 days
5746    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5748    Time Step No. = 974 Elapsed Time = 1.671752E+06 days
5749    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5751    Time Step No. = 975 Elapsed Time = 1.673752E+06 days
5752    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5754    Time Step No. = 976 Elapsed Time = 1.675752E+06 days
5755    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5757    Time Step No. = 977 Elapsed Time = 1.677752E+06 days
5758    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5760    Time Step No. = 978 Elapsed Time = 1.679752E+06 days
5761    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5763    Time Step No. = 979 Elapsed Time = 1.681752E+06 days
5764    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5766    Time Step No. = 980 Elapsed Time = 1.683752E+06 days
5767    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5769    Time Step No. = 981 Elapsed Time = 1.685752E+06 days
5770    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5772    Time Step No. = 982 Elapsed Time = 1.687752E+06 days
5773    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5775    Time Step No. = 983 Elapsed Time = 1.689752E+06 days
5776    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5778    Time Step No. = 984 Elapsed Time = 1.691752E+06 days
5779    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5781    Time Step No. = 985 Elapsed Time = 1.693752E+06 days
5782    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5784    Time Step No. = 986 Elapsed Time = 1.695752E+06 days
5785    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5787    Time Step No. = 987 Elapsed Time = 1.697752E+06 days
5788    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5790    Time Step No. = 988 Elapsed Time = 1.699752E+06 days
5791    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5793    Time Step No. = 989 Elapsed Time = 1.701752E+06 days
5794    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5796    Time Step No. = 990 Elapsed Time = 1.703752E+06 days
5797    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5799    Time Step No. = 991 Elapsed Time = 1.705752E+06 days
5800    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5802    Time Step No. = 992 Elapsed Time = 1.707752E+06 days
5803    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5805    Time Step No. = 993 Elapsed Time = 1.709752E+06 days
5806    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5808    Time Step No. = 994 Elapsed Time = 1.711752E+06 days
5809    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5811    Time Step No. = 995 Elapsed Time = 1.713752E+06 days
5812    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5814    Time Step No. = 996 Elapsed Time = 1.715752E+06 days
5815    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.63 ( 1.63 sec) Binary
5817    Time Step No. = 997 Elapsed Time = 1.717752E+06 days
5818    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5820    Time Step No. = 998 Elapsed Time = 1.719752E+06 days
5821    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5823    Time Step No. = 999 Elapsed Time = 1.721752E+06 days
5824    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5826    Time Step No. = 1000 Elapsed Time = 1.723752E+06 days
5827    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5829    Time Step No. = 1001 Elapsed Time = 1.725752E+06 days
5830    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5832    Time Step No. = 1002 Elapsed Time = 1.727752E+06 days
5833    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5835    Time Step No. = 1003 Elapsed Time = 1.729752E+06 days
5836    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.64 ( 1.64 sec) Binary
5838    Time Step No. = 1004 Elapsed Time = 1.731752E+06 days
5839    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5841    Time Step No. = 1005 Elapsed Time = 1.733752E+06 days
5842    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5844    Time Step No. = 1006 Elapsed Time = 1.735752E+06 days
5845    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
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5847    Time Step No. = 1007 Elapsed Time = 1.737752E+06 days
5848    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5850    Time Step No. = 1008 Elapsed Time = 1.739752E+06 days
5851    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.65 ( 1.65 sec) Binary
5853    Time Step No. = 1009 Elapsed Time = 1.741752E+06 days
5854    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5856    Time Step No. = 1010 Elapsed Time = 1.743752E+06 days
5857    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5859    Time Step No. = 1011 Elapsed Time = 1.745752E+06 days
5860    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5862    Time Step No. = 1012 Elapsed Time = 1.747752E+06 days
5863    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5865    Time Step No. = 1013 Elapsed Time = 1.749752E+06 days
5866    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5868    Time Step No. = 1014 Elapsed Time = 1.751752E+06 days
5869    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5871    Time Step No. = 1015 Elapsed Time = 1.753752E+06 days
5872    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5874    Time Step No. = 1016 Elapsed Time = 1.755752E+06 days
5875    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5877    Time Step No. = 1017 Elapsed Time = 1.757752E+06 days
5878    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5880    Time Step No. = 1018 Elapsed Time = 1.759752E+06 days
5881    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5883    Time Step No. = 1019 Elapsed Time = 1.761752E+06 days
5884    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5886    Time Step No. = 1020 Elapsed Time = 1.763752E+06 days
5887    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5889    Time Step No. = 1021 Elapsed Time = 1.765752E+06 days
5890    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5892    Time Step No. = 1022 Elapsed Time = 1.767752E+06 days
5893    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5895    Time Step No. = 1023 Elapsed Time = 1.769752E+06 days
5896    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5898    Time Step No. = 1024 Elapsed Time = 1.771752E+06 days
5899    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5901    Time Step No. = 1025 Elapsed Time = 1.773752E+06 days
5902    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5904    Time Step No. = 1026 Elapsed Time = 1.775752E+06 days
5905    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5907    Time Step No. = 1027 Elapsed Time = 1.777752E+06 days
5908    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5910    Time Step No. = 1028 Elapsed Time = 1.779752E+06 days
5911    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5913    Time Step No. = 1029 Elapsed Time = 1.781752E+06 days
5914    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5916    Time Step No. = 1030 Elapsed Time = 1.783752E+06 days
5917    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5919    Time Step No. = 1031 Elapsed Time = 1.785752E+06 days
5920    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5922    Time Step No. = 1032 Elapsed Time = 1.787752E+06 days
5923    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5925    Time Step No. = 1033 Elapsed Time = 1.789752E+06 days
5926    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5928    Time Step No. = 1034 Elapsed Time = 1.791752E+06 days
5929    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5931    Time Step No. = 1035 Elapsed Time = 1.793752E+06 days
5932    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5934    Time Step No. = 1036 Elapsed Time = 1.795752E+06 days
5935    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5937    Time Step No. = 1037 Elapsed Time = 1.797752E+06 days
5938    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5940    Time Step No. = 1038 Elapsed Time = 1.799752E+06 days
5941    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5943    Time Step No. = 1039 Elapsed Time = 1.801752E+06 days
5944    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5946    Time Step No. = 1040 Elapsed Time = 1.803752E+06 days
5947    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5949    Time Step No. = 1041 Elapsed Time = 1.805752E+06 days
5950    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5952    Time Step No. = 1042 Elapsed Time = 1.807752E+06 days
5953    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5955    Time Step No. = 1043 Elapsed Time = 1.809752E+06 days
5956    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5958    Time Step No. = 1044 Elapsed Time = 1.811752E+06 days
5959    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
```

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5961 Time Step No. = 1045 Elapsed Time = 1.813752E+06 days
5962 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5964 Time Step No. = 1046 Elapsed Time = 1.815752E+06 days
5965 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5967 Time Step No. = 1047 Elapsed Time = 1.817752E+06 days
5968 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5970 Time Step No. = 1048 Elapsed Time = 1.819752E+06 days
5971 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5973 Time Step No. = 1049 Elapsed Time = 1.821752E+06 days
5974 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5976 Time Step No. = 1050 Elapsed Time = 1.823752E+06 days
5977 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5979 Time Step No. = 1051 Elapsed Time = 1.825752E+06 days
5980 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5982 Time Step No. = 1052 Elapsed Time = 1.827752E+06 days
5983 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5985 Time Step No. = 1053 Elapsed Time = 1.829752E+06 days
5986 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5988 Time Step No. = 1054 Elapsed Time = 1.831752E+06 days
5989 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5991 Time Step No. = 1055 Elapsed Time = 1.833752E+06 days
5992 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5994 Time Step No. = 1056 Elapsed Time = 1.835752E+06 days
5995 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5997 Time Step No. = 1057 Elapsed Time = 1.837752E+06 days
5998 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
6000 Time Step No. = 1058 Elapsed Time = 1.839752E+06 days
6001 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
6003 Time Step No. = 1059 Elapsed Time = 1.841752E+06 days
6004 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
6006 Time Step No. = 1060 Elapsed Time = 1.843752E+06 days
6007 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6009 Time Step No. = 1061 Elapsed Time = 1.845752E+06 days
6010 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6012 Time Step No. = 1062 Elapsed Time = 1.847752E+06 days
6013 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6015 Time Step No. = 1063 Elapsed Time = 1.849752E+06 days
6016 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6018 Time Step No. = 1064 Elapsed Time = 1.851752E+06 days
6019 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6021 Time Step No. = 1065 Elapsed Time = 1.853752E+06 days
6022 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6024 Time Step No. = 1066 Elapsed Time = 1.855752E+06 days
6025 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6027 Time Step No. = 1067 Elapsed Time = 1.857752E+06 days
6028 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6030 Time Step No. = 1068 Elapsed Time = 1.859752E+06 days
6031 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6033 Time Step No. = 1069 Elapsed Time = 1.861752E+06 days
6034 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6036 Time Step No. = 1070 Elapsed Time = 1.863752E+06 days
6037 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6039 Time Step No. = 1071 Elapsed Time = 1.865752E+06 days
6040 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6042 Time Step No. = 1072 Elapsed Time = 1.867752E+06 days
6043 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6045 Time Step No. = 1073 Elapsed Time = 1.869752E+06 days
6046 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6048 Time Step No. = 1074 Elapsed Time = 1.871752E+06 days
6049 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6051 Time Step No. = 1075 Elapsed Time = 1.873752E+06 days
6052 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
6054 Time Step No. = 1076 Elapsed Time = 1.875752E+06 days
6055 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6057 Time Step No. = 1077 Elapsed Time = 1.877752E+06 days
6058 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6060 Time Step No. = 1078 Elapsed Time = 1.879752E+06 days
6061 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6063 Time Step No. = 1079 Elapsed Time = 1.881752E+06 days
6064 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6066 Time Step No. = 1080 Elapsed Time = 1.883752E+06 days
6067 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6069 Time Step No. = 1081 Elapsed Time = 1.885752E+06 days
6070 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
6072 Time Step No. = 1082 Elapsed Time = 1.887752E+06 days
6073 Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
```

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6075    Time Step No. = 1083 Elapsed Time = 1.889752E+06 days
6076    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6078    Time Step No. = 1084 Elapsed Time = 1.891752E+06 days
6079    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6081    Time Step No. = 1085 Elapsed Time = 1.893752E+06 days
6082    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6084    Time Step No. = 1086 Elapsed Time = 1.895752E+06 days
6085    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6087    Time Step No. = 1087 Elapsed Time = 1.897752E+06 days
6088    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6090    Time Step No. = 1088 Elapsed Time = 1.899752E+06 days
6091    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6093    Time Step No. = 1089 Elapsed Time = 1.901752E+06 days
6094    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6096    Time Step No. = 1090 Elapsed Time = 1.903752E+06 days
6097    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6099    Time Step No. = 1091 Elapsed Time = 1.905752E+06 days
6100    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6102    Time Step No. = 1092 Elapsed Time = 1.907752E+06 days
6103    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6105    Time Step No. = 1093 Elapsed Time = 1.909752E+06 days
6106    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6108    Time Step No. = 1094 Elapsed Time = 1.911752E+06 days
6109    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
6111    Time Step No. = 1095 Elapsed Time = 1.913752E+06 days
6112    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6114    Time Step No. = 1096 Elapsed Time = 1.915752E+06 days
6115    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6117    Time Step No. = 1097 Elapsed Time = 1.917752E+06 days
6118    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6120    Time Step No. = 1098 Elapsed Time = 1.919752E+06 days
6121    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6123    Time Step No. = 1099 Elapsed Time = 1.921752E+06 days
6124    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6126    Time Step No. = 1100 Elapsed Time = 1.923752E+06 days
6127    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6129    Time Step No. = 1101 Elapsed Time = 1.925752E+06 days
6130    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6132    Time Step No. = 1102 Elapsed Time = 1.927752E+06 days
6133    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6135    Time Step No. = 1103 Elapsed Time = 1.929752E+06 days
6136    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6138    Time Step No. = 1104 Elapsed Time = 1.931752E+06 days
6139    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6141    Time Step No. = 1105 Elapsed Time = 1.933752E+06 days
6142    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6144    Time Step No. = 1106 Elapsed Time = 1.935752E+06 days
6145    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6147    Time Step No. = 1107 Elapsed Time = 1.937752E+06 days
6148    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6150    Time Step No. = 1108 Elapsed Time = 1.939752E+06 days
6151    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6153    Time Step No. = 1109 Elapsed Time = 1.941752E+06 days
6154    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6156    Time Step No. = 1110 Elapsed Time = 1.943752E+06 days
6157    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6159    Time Step No. = 1111 Elapsed Time = 1.945752E+06 days
6160    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6162    Time Step No. = 1112 Elapsed Time = 1.947752E+06 days
6163    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6165    Time Step No. = 1113 Elapsed Time = 1.949752E+06 days
6166    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
6168    Time Step No. = 1114 Elapsed Time = 1.951752E+06 days
6169    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6171    Time Step No. = 1115 Elapsed Time = 1.953752E+06 days
6172    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6174    Time Step No. = 1116 Elapsed Time = 1.955752E+06 days
6175    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6177    Time Step No. = 1117 Elapsed Time = 1.957752E+06 days
6178    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6180    Time Step No. = 1118 Elapsed Time = 1.959752E+06 days
6181    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6183    Time Step No. = 1119 Elapsed Time = 1.961752E+06 days
6184    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
6186    Time Step No. = 1120 Elapsed Time = 1.963752E+06 days
6187    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
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6189    Time Step No. = 1121 Elapsed Time = 1.965752E+06 days
6190    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6192    Time Step No. = 1122 Elapsed Time = 1.967752E+06 days
6193    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6195    Time Step No. = 1123 Elapsed Time = 1.969752E+06 days
6196    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6198    Time Step No. = 1124 Elapsed Time = 1.971752E+06 days
6199    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6201    Time Step No. = 1125 Elapsed Time = 1.973752E+06 days
6202    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6204    Time Step No. = 1126 Elapsed Time = 1.975752E+06 days
6205    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6207    Time Step No. = 1127 Elapsed Time = 1.977752E+06 days
6208    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6210    Time Step No. = 1128 Elapsed Time = 1.979752E+06 days
6211    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6213    Time Step No. = 1129 Elapsed Time = 1.981752E+06 days
6214    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6216    Time Step No. = 1130 Elapsed Time = 1.983752E+06 days
6217    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6219    Time Step No. = 1131 Elapsed Time = 1.985752E+06 days
6220    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
6222    Time Step No. = 1132 Elapsed Time = 1.987752E+06 days
6223    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6225    Time Step No. = 1133 Elapsed Time = 1.989752E+06 days
6226    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6228    Time Step No. = 1134 Elapsed Time = 1.991752E+06 days
6229    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6231    Time Step No. = 1135 Elapsed Time = 1.993752E+06 days
6232    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6234    Time Step No. = 1136 Elapsed Time = 1.995752E+06 days
6235    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6237    Time Step No. = 1137 Elapsed Time = 1.997752E+06 days
6238    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
6240    Time Step No. = 1138 Elapsed Time = 1.999752E+06 days
6241    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6243    Time Step No. = 1139 Elapsed Time = 2.001752E+06 days
6244    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6246    Time Step No. = 1140 Elapsed Time = 2.003752E+06 days
6247    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6249    Time Step No. = 1141 Elapsed Time = 2.005752E+06 days
6250    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6252    Time Step No. = 1142 Elapsed Time = 2.007752E+06 days
6253    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6255    Time Step No. = 1143 Elapsed Time = 2.009752E+06 days
6256    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
6258    Time Step No. = 1144 Elapsed Time = 2.011752E+06 days
6259    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6261    Time Step No. = 1145 Elapsed Time = 2.013752E+06 days
6262    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6264    Time Step No. = 1146 Elapsed Time = 2.015752E+06 days
6265    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6267    Time Step No. = 1147 Elapsed Time = 2.017752E+06 days
6268    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6270    Time Step No. = 1148 Elapsed Time = 2.019752E+06 days
6271    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6273    Time Step No. = 1149 Elapsed Time = 2.021752E+06 days
6274    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6276    Time Step No. = 1150 Elapsed Time = 2.023752E+06 days
6277    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
6279    Time Step No. = 1151 Elapsed Time = 2.025752E+06 days
6280    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
6282    Time Step No. = 1152 Elapsed Time = 2.027752E+06 days
6283    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
6285    Time Step No. = 1153 Elapsed Time = 2.029752E+06 days
6286    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
6288    Time Step No. = 1154 Elapsed Time = 2.031752E+06 days
6289    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6291    Time Step No. = 1155 Elapsed Time = 2.033752E+06 days
6292    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6294    Time Step No. = 1156 Elapsed Time = 2.035752E+06 days
6295    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6297    Time Step No. = 1157 Elapsed Time = 2.037752E+06 days
6298    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6300    Time Step No. = 1158 Elapsed Time = 2.039752E+06 days
6301    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
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6303    Time Step No. = 1159 Elapsed Time = 2.041752E+06 days
6304    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6306    Time Step No. = 1160 Elapsed Time = 2.043752E+06 days
6307    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6309    Time Step No. = 1161 Elapsed Time = 2.045752E+06 days
6310    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
6312    Time Step No. = 1162 Elapsed Time = 2.047752E+06 days
6313    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
6315    Time Step No. = 1163 Elapsed Time = 2.049752E+06 days
6316    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
6318    Time Step No. = 1164 Elapsed Time = 2.051752E+06 days
6319    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
6321    Time Step No. = 1165 Elapsed Time = 2.053752E+06 days
6322    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6324    Time Step No. = 1166 Elapsed Time = 2.055752E+06 days
6325    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6327    Time Step No. = 1167 Elapsed Time = 2.057752E+06 days
6328    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6330    Time Step No. = 1168 Elapsed Time = 2.059752E+06 days
6331    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6333    Time Step No. = 1169 Elapsed Time = 2.061752E+06 days
6334    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6336    Time Step No. = 1170 Elapsed Time = 2.063752E+06 days
6337    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6339    Time Step No. = 1171 Elapsed Time = 2.065752E+06 days
6340    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
6342    Time Step No. = 1172 Elapsed Time = 2.067752E+06 days
6343    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
6345    Time Step No. = 1173 Elapsed Time = 2.069752E+06 days
6346    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
6348    Time Step No. = 1174 Elapsed Time = 2.071752E+06 days
6349    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
6351    Time Step No. = 1175 Elapsed Time = 2.073752E+06 days
6352    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
6354    Time Step No. = 1176 Elapsed Time = 2.075752E+06 days
6355    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
6357    Time Step No. = 1177 Elapsed Time = 2.077752E+06 days
6358    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6360    Time Step No. = 1178 Elapsed Time = 2.079752E+06 days
6361    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6363    Time Step No. = 1179 Elapsed Time = 2.081752E+06 days
6364    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6366    Time Step No. = 1180 Elapsed Time = 2.083752E+06 days
6367    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6369    Time Step No. = 1181 Elapsed Time = 2.085752E+06 days
6370    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6372    Time Step No. = 1182 Elapsed Time = 2.087752E+06 days
6373    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6375    Time Step No. = 1183 Elapsed Time = 2.089752E+06 days
6376    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6378    Time Step No. = 1184 Elapsed Time = 2.091752E+06 days
6379    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6381    Time Step No. = 1185 Elapsed Time = 2.093752E+06 days
6382    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6384    Time Step No. = 1186 Elapsed Time = 2.095752E+06 days
6385    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6387    Time Step No. = 1187 Elapsed Time = 2.097752E+06 days
6388    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6390    Time Step No. = 1188 Elapsed Time = 2.099752E+06 days
6391    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6393    Time Step No. = 1189 Elapsed Time = 2.101752E+06 days
6394    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
6396    Time Step No. = 1190 Elapsed Time = 2.103752E+06 days
6397    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
6399    Time Step No. = 1191 Elapsed Time = 2.105752E+06 days
6400    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
6402    Time Step No. = 1192 Elapsed Time = 2.107752E+06 days
6403    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
6405    Time Step No. = 1193 Elapsed Time = 2.109752E+06 days
6406    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
6408    Time Step No. = 1194 Elapsed Time = 2.111752E+06 days
6409    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
6411    Time Step No. = 1195 Elapsed Time = 2.113752E+06 days
6412    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6414    Time Step No. = 1196 Elapsed Time = 2.115752E+06 days
6415    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
```

```
6417   Time Step No. = 1197 Elapsed Time = 2.117752E+06 days
6418   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6420   Time Step No. = 1198 Elapsed Time = 2.119752E+06 days
6421   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6423   Time Step No. = 1199 Elapsed Time = 2.121752E+06 days
6424   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6426   Time Step No. = 1200 Elapsed Time = 2.123752E+06 days
6427   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6429   Time Step No. = 1201 Elapsed Time = 2.125752E+06 days
6430   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6432   Time Step No. = 1202 Elapsed Time = 2.127752E+06 days
6433   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6435   Time Step No. = 1203 Elapsed Time = 2.129752E+06 days
6436   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6438   Time Step No. = 1204 Elapsed Time = 2.131752E+06 days
6439   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6441   Time Step No. = 1205 Elapsed Time = 2.133752E+06 days
6442   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6444   Time Step No. = 1206 Elapsed Time = 2.135752E+06 days
6445   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6447   Time Step No. = 1207 Elapsed Time = 2.137752E+06 days
6448   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6450   Time Step No. = 1208 Elapsed Time = 2.139752E+06 days
6451   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6453   Time Step No. = 1209 Elapsed Time = 2.141752E+06 days
6454   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6456   Time Step No. = 1210 Elapsed Time = 2.143752E+06 days
6457   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6459   Time Step No. = 1211 Elapsed Time = 2.145752E+06 days
6460   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6462   Time Step No. = 1212 Elapsed Time = 2.147752E+06 days
6463   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6465   Time Step No. = 1213 Elapsed Time = 2.149752E+06 days
6466   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6468   Time Step No. = 1214 Elapsed Time = 2.151752E+06 days
6469   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6471   Time Step No. = 1215 Elapsed Time = 2.153752E+06 days
6472   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6474   Time Step No. = 1216 Elapsed Time = 2.155752E+06 days
6475   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6477   Time Step No. = 1217 Elapsed Time = 2.157752E+06 days
6478   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6480   Time Step No. = 1218 Elapsed Time = 2.159752E+06 days
6481   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6483   Time Step No. = 1219 Elapsed Time = 2.161752E+06 days
6484   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6486   Time Step No. = 1220 Elapsed Time = 2.163752E+06 days
6487   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6489   Time Step No. = 1221 Elapsed Time = 2.165752E+06 days
6490   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6492   Time Step No. = 1222 Elapsed Time = 2.167752E+06 days
6493   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6495   Time Step No. = 1223 Elapsed Time = 2.169752E+06 days
6496   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6498   Time Step No. = 1224 Elapsed Time = 2.171752E+06 days
6499   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6501   Time Step No. = 1225 Elapsed Time = 2.173752E+06 days
6502   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6504   Time Step No. = 1226 Elapsed Time = 2.175752E+06 days
6505   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6507   Time Step No. = 1227 Elapsed Time = 2.177752E+06 days
6508   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6510   Time Step No. = 1228 Elapsed Time = 2.179752E+06 days
6511   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6513   Time Step No. = 1229 Elapsed Time = 2.181752E+06 days
6514   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6516   Time Step No. = 1230 Elapsed Time = 2.183752E+06 days
6517   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6519   Time Step No. = 1231 Elapsed Time = 2.185752E+06 days
6520   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6522   Time Step No. = 1232 Elapsed Time = 2.187752E+06 days
6523   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6525   Time Step No. = 1233 Elapsed Time = 2.189752E+06 days
6526   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6528   Time Step No. = 1234 Elapsed Time = 2.191752E+06 days
6529   Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
```

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6531    Time Step No. = 1235 Elapsed Time = 2.193752E+06 days
6532    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6534    Time Step No. = 1236 Elapsed Time = 2.195752E+06 days
6535    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6537    Time Step No. = 1237 Elapsed Time = 2.197752E+06 days
6538    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6540    Time Step No. = 1238 Elapsed Time = 2.199752E+06 days
6541    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6543    Time Step No. = 1239 Elapsed Time = 2.201752E+06 days
6544    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6546    Time Step No. = 1240 Elapsed Time = 2.203752E+06 days
6547    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6549    Time Step No. = 1241 Elapsed Time = 2.205752E+06 days
6550    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6552    Time Step No. = 1242 Elapsed Time = 2.207752E+06 days
6553    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6555    Time Step No. = 1243 Elapsed Time = 2.209752E+06 days
6556    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6558    Time Step No. = 1244 Elapsed Time = 2.211752E+06 days
6559    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6561    Time Step No. = 1245 Elapsed Time = 2.213752E+06 days
6562    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6564    Time Step No. = 1246 Elapsed Time = 2.215752E+06 days
6565    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6567    Time Step No. = 1247 Elapsed Time = 2.217752E+06 days
6568    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6570    Time Step No. = 1248 Elapsed Time = 2.219752E+06 days
6571    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6573    Time Step No. = 1249 Elapsed Time = 2.221752E+06 days
6574    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6576    Time Step No. = 1250 Elapsed Time = 2.223752E+06 days
6577    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6579    Time Step No. = 1251 Elapsed Time = 2.225752E+06 days
6580    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6582    Time Step No. = 1252 Elapsed Time = 2.227752E+06 days
6583    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6585    Time Step No. = 1253 Elapsed Time = 2.229752E+06 days
6586    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6588    Time Step No. = 1254 Elapsed Time = 2.231752E+06 days
6589    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6591    Time Step No. = 1255 Elapsed Time = 2.233752E+06 days
6592    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6594    Time Step No. = 1256 Elapsed Time = 2.235752E+06 days
6595    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6597    Time Step No. = 1257 Elapsed Time = 2.237752E+06 days
6598    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6600    Time Step No. = 1258 Elapsed Time = 2.239752E+06 days
6601    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6603    Time Step No. = 1259 Elapsed Time = 2.241752E+06 days
6604    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6606    Time Step No. = 1260 Elapsed Time = 2.243752E+06 days
6607    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6609    Time Step No. = 1261 Elapsed Time = 2.245752E+06 days
6610    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6612    Time Step No. = 1262 Elapsed Time = 2.247752E+06 days
6613    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6615    Time Step No. = 1263 Elapsed Time = 2.249752E+06 days
6616    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6618    Time Step No. = 1264 Elapsed Time = 2.251752E+06 days
6619    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6621    Time Step No. = 1265 Elapsed Time = 2.253752E+06 days
6622    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6624    Time Step No. = 1266 Elapsed Time = 2.255752E+06 days
6625    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6627    Time Step No. = 1267 Elapsed Time = 2.257752E+06 days
6628    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6630    Time Step No. = 1268 Elapsed Time = 2.259752E+06 days
6631    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6633    Time Step No. = 1269 Elapsed Time = 2.261752E+06 days
6634    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6636    Time Step No. = 1270 Elapsed Time = 2.263752E+06 days
6637    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6639    Time Step No. = 1271 Elapsed Time = 2.265752E+06 days
6640    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6642    Time Step No. = 1272 Elapsed Time = 2.267752E+06 days
6643    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
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6645    Time Step No. = 1273 Elapsed Time = 2.269752E+06 days
6646    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6648    Time Step No. = 1274 Elapsed Time = 2.271752E+06 days
6649    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6651    Time Step No. = 1275 Elapsed Time = 2.273752E+06 days
6652    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6654    Time Step No. = 1276 Elapsed Time = 2.275752E+06 days
6655    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6657    Time Step No. = 1277 Elapsed Time = 2.277752E+06 days
6658    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6660    Time Step No. = 1278 Elapsed Time = 2.279752E+06 days
6661    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6663    Time Step No. = 1279 Elapsed Time = 2.281752E+06 days
6664    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6666    Time Step No. = 1280 Elapsed Time = 2.283752E+06 days
6667    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6669    Time Step No. = 1281 Elapsed Time = 2.285752E+06 days
6670    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6672    Time Step No. = 1282 Elapsed Time = 2.287752E+06 days
6673    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6675    Time Step No. = 1283 Elapsed Time = 2.289752E+06 days
6676    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6678    Time Step No. = 1284 Elapsed Time = 2.291752E+06 days
6679    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6681    Time Step No. = 1285 Elapsed Time = 2.293752E+06 days
6682    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6684    Time Step No. = 1286 Elapsed Time = 2.295752E+06 days
6685    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6687    Time Step No. = 1287 Elapsed Time = 2.297752E+06 days
6688    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6690    Time Step No. = 1288 Elapsed Time = 2.299752E+06 days
6691    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6693    Time Step No. = 1289 Elapsed Time = 2.301752E+06 days
6694    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6696    Time Step No. = 1290 Elapsed Time = 2.303752E+06 days
6697    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6699    Time Step No. = 1291 Elapsed Time = 2.305752E+06 days
6700    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6702    Time Step No. = 1292 Elapsed Time = 2.307752E+06 days
6703    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6705    Time Step No. = 1293 Elapsed Time = 2.309752E+06 days
6706    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6708    Time Step No. = 1294 Elapsed Time = 2.311752E+06 days
6709    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6711    Time Step No. = 1295 Elapsed Time = 2.313752E+06 days
6712    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6714    Time Step No. = 1296 Elapsed Time = 2.315752E+06 days
6715    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6717    Time Step No. = 1297 Elapsed Time = 2.317752E+06 days
6718    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6720    Time Step No. = 1298 Elapsed Time = 2.319752E+06 days
6721    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6723    Time Step No. = 1299 Elapsed Time = 2.321752E+06 days
6724    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6726    Time Step No. = 1300 Elapsed Time = 2.323752E+06 days
6727    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6729    Time Step No. = 1301 Elapsed Time = 2.325752E+06 days
6730    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6732    Time Step No. = 1302 Elapsed Time = 2.327752E+06 days
6733    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6735    Time Step No. = 1303 Elapsed Time = 2.329752E+06 days
6736    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6738    Time Step No. = 1304 Elapsed Time = 2.331752E+06 days
6739    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6741    Time Step No. = 1305 Elapsed Time = 2.333752E+06 days
6742    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6744    Time Step No. = 1306 Elapsed Time = 2.335752E+06 days
6745    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6747    Time Step No. = 1307 Elapsed Time = 2.337752E+06 days
6748    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6750    Time Step No. = 1308 Elapsed Time = 2.339752E+06 days
6751    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6753    Time Step No. = 1309 Elapsed Time = 2.341752E+06 days
6754    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6756    Time Step No. = 1310 Elapsed Time = 2.343752E+06 days
6757    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
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6759    Time Step No. = 1311 Elapsed Time = 2.345752E+06 days
6760    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6762    Time Step No. = 1312 Elapsed Time = 2.347752E+06 days
6763    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6765    Time Step No. = 1313 Elapsed Time = 2.349752E+06 days
6766    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6768    Time Step No. = 1314 Elapsed Time = 2.351752E+06 days
6769    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6771    Time Step No. = 1315 Elapsed Time = 2.353752E+06 days
6772    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6774    Time Step No. = 1316 Elapsed Time = 2.355752E+06 days
6775    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6777    Time Step No. = 1317 Elapsed Time = 2.357752E+06 days
6778    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6780    Time Step No. = 1318 Elapsed Time = 2.359752E+06 days
6781    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6783    Time Step No. = 1319 Elapsed Time = 2.361752E+06 days
6784    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6786    Time Step No. = 1320 Elapsed Time = 2.363752E+06 days
6787    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6789    Time Step No. = 1321 Elapsed Time = 2.365752E+06 days
6790    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6792    Time Step No. = 1322 Elapsed Time = 2.367752E+06 days
6793    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6795    Time Step No. = 1323 Elapsed Time = 2.369752E+06 days
6796    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6798    Time Step No. = 1324 Elapsed Time = 2.371752E+06 days
6799    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6801    Time Step No. = 1325 Elapsed Time = 2.373752E+06 days
6802    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6804    Time Step No. = 1326 Elapsed Time = 2.375752E+06 days
6805    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6807    Time Step No. = 1327 Elapsed Time = 2.377752E+06 days
6808    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6810    Time Step No. = 1328 Elapsed Time = 2.379752E+06 days
6811    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6813    Time Step No. = 1329 Elapsed Time = 2.381752E+06 days
6814    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6816    Time Step No. = 1330 Elapsed Time = 2.383752E+06 days
6817    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6819    Time Step No. = 1331 Elapsed Time = 2.385752E+06 days
6820    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6822    Time Step No. = 1332 Elapsed Time = 2.387752E+06 days
6823    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6825    Time Step No. = 1333 Elapsed Time = 2.389752E+06 days
6826    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6828    Time Step No. = 1334 Elapsed Time = 2.391752E+06 days
6829    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6831    Time Step No. = 1335 Elapsed Time = 2.393752E+06 days
6832    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6834    Time Step No. = 1336 Elapsed Time = 2.395752E+06 days
6835    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6837    Time Step No. = 1337 Elapsed Time = 2.397752E+06 days
6838    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6840    Time Step No. = 1338 Elapsed Time = 2.399752E+06 days
6841    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6843    Time Step No. = 1339 Elapsed Time = 2.401752E+06 days
6844    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6846    Time Step No. = 1340 Elapsed Time = 2.403752E+06 days
6847    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6849    Time Step No. = 1341 Elapsed Time = 2.405752E+06 days
6850    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6852    Time Step No. = 1342 Elapsed Time = 2.407752E+06 days
6853    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6855    Time Step No. = 1343 Elapsed Time = 2.409752E+06 days
6856    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6858    Time Step No. = 1344 Elapsed Time = 2.411752E+06 days
6859    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6861    Time Step No. = 1345 Elapsed Time = 2.413752E+06 days
6862    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6864    Time Step No. = 1346 Elapsed Time = 2.415752E+06 days
6865    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6867    Time Step No. = 1347 Elapsed Time = 2.417752E+06 days
6868    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6870    Time Step No. = 1348 Elapsed Time = 2.419752E+06 days
6871    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
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6873    Time Step No. = 1349 Elapsed Time = 2.421752E+06 days
6874    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6876    Time Step No. = 1350 Elapsed Time = 2.423752E+06 days
6877    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6879    Time Step No. = 1351 Elapsed Time = 2.425752E+06 days
6880    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6882    Time Step No. = 1352 Elapsed Time = 2.427752E+06 days
6883    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6885    Time Step No. = 1353 Elapsed Time = 2.429752E+06 days
6886    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6888    Time Step No. = 1354 Elapsed Time = 2.431752E+06 days
6889    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6891    Time Step No. = 1355 Elapsed Time = 2.433752E+06 days
6892    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6894    Time Step No. = 1356 Elapsed Time = 2.435752E+06 days
6895    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6897    Time Step No. = 1357 Elapsed Time = 2.437752E+06 days
6898    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6900    Time Step No. = 1358 Elapsed Time = 2.439752E+06 days
6901    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6903    Time Step No. = 1359 Elapsed Time = 2.441752E+06 days
6904    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6906    Time Step No. = 1360 Elapsed Time = 2.443752E+06 days
6907    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6909    Time Step No. = 1361 Elapsed Time = 2.445752E+06 days
6910    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6912    Time Step No. = 1362 Elapsed Time = 2.447752E+06 days
6913    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6915    Time Step No. = 1363 Elapsed Time = 2.449752E+06 days
6916    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6918    Time Step No. = 1364 Elapsed Time = 2.451752E+06 days
6919    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6921    Time Step No. = 1365 Elapsed Time = 2.453752E+06 days
6922    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6924    Time Step No. = 1366 Elapsed Time = 2.455752E+06 days
6925    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6927    Time Step No. = 1367 Elapsed Time = 2.457752E+06 days
6928    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6930    Time Step No. = 1368 Elapsed Time = 2.459752E+06 days
6931    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6933    Time Step No. = 1369 Elapsed Time = 2.461752E+06 days
6934    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6936    Time Step No. = 1370 Elapsed Time = 2.463752E+06 days
6937    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6939    Time Step No. = 1371 Elapsed Time = 2.465752E+06 days
6940    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6942    Time Step No. = 1372 Elapsed Time = 2.467752E+06 days
6943    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6945    Time Step No. = 1373 Elapsed Time = 2.469752E+06 days
6946    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6948    Time Step No. = 1374 Elapsed Time = 2.471752E+06 days
6949    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6951    Time Step No. = 1375 Elapsed Time = 2.473752E+06 days
6952    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6954    Time Step No. = 1376 Elapsed Time = 2.475752E+06 days
6955    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6957    Time Step No. = 1377 Elapsed Time = 2.477752E+06 days
6958    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6960    Time Step No. = 1378 Elapsed Time = 2.479752E+06 days
6961    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6963    Time Step No. = 1379 Elapsed Time = 2.481752E+06 days
6964    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6966    Time Step No. = 1380 Elapsed Time = 2.483752E+06 days
6967    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6969    Time Step No. = 1381 Elapsed Time = 2.485752E+06 days
6970    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6972    Time Step No. = 1382 Elapsed Time = 2.487752E+06 days
6973    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6975    Time Step No. = 1383 Elapsed Time = 2.489752E+06 days
6976    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6978    Time Step No. = 1384 Elapsed Time = 2.491752E+06 days
6979    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6981    Time Step No. = 1385 Elapsed Time = 2.493752E+06 days
6982    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6984    Time Step No. = 1386 Elapsed Time = 2.495752E+06 days
6985    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
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6987    Time Step No. = 1387 Elapsed Time = 2.497752E+06 days
6988    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6990    Time Step No. = 1388 Elapsed Time = 2.499752E+06 days
6991    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6993    Time Step No. = 1389 Elapsed Time = 2.501752E+06 days
6994    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6996    Time Step No. = 1390 Elapsed Time = 2.503752E+06 days
6997    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6999    Time Step No. = 1391 Elapsed Time = 2.505752E+06 days
7000    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
7002    Time Step No. = 1392 Elapsed Time = 2.507752E+06 days
7003    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
7005    Time Step No. = 1393 Elapsed Time = 2.509752E+06 days
7006    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
7008    Time Step No. = 1394 Elapsed Time = 2.511752E+06 days
7009    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
7011    Time Step No. = 1395 Elapsed Time = 2.513752E+06 days
7012    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
7014    Time Step No. = 1396 Elapsed Time = 2.515752E+06 days
7015    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7017    Time Step No. = 1397 Elapsed Time = 2.517752E+06 days
7018    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7020    Time Step No. = 1398 Elapsed Time = 2.519752E+06 days
7021    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7023    Time Step No. = 1399 Elapsed Time = 2.521752E+06 days
7024    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7026    Time Step No. = 1400 Elapsed Time = 2.523752E+06 days
7027    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7029    Time Step No. = 1401 Elapsed Time = 2.525752E+06 days
7030    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
7032    Time Step No. = 1402 Elapsed Time = 2.527752E+06 days
7033    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7035    Time Step No. = 1403 Elapsed Time = 2.529752E+06 days
7036    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7038    Time Step No. = 1404 Elapsed Time = 2.531752E+06 days
7039    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7041    Time Step No. = 1405 Elapsed Time = 2.533752E+06 days
7042    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7044    Time Step No. = 1406 Elapsed Time = 2.535752E+06 days
7045    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7047    Time Step No. = 1407 Elapsed Time = 2.537752E+06 days
7048    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7050    Time Step No. = 1408 Elapsed Time = 2.539752E+06 days
7051    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
7053    Time Step No. = 1409 Elapsed Time = 2.541752E+06 days
7054    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
7056    Time Step No. = 1410 Elapsed Time = 2.543752E+06 days
7057    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
7059    Time Step No. = 1411 Elapsed Time = 2.545752E+06 days
7060    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
7062    Time Step No. = 1412 Elapsed Time = 2.547752E+06 days
7063    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
7065    Time Step No. = 1413 Elapsed Time = 2.549752E+06 days
7066    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7068    Time Step No. = 1414 Elapsed Time = 2.551752E+06 days
7069    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7071    Time Step No. = 1415 Elapsed Time = 2.553752E+06 days
7072    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7074    Time Step No. = 1416 Elapsed Time = 2.555752E+06 days
7075    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7077    Time Step No. = 1417 Elapsed Time = 2.557752E+06 days
7078    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7080    Time Step No. = 1418 Elapsed Time = 2.559752E+06 days
7081    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7083    Time Step No. = 1419 Elapsed Time = 2.561752E+06 days
7084    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7086    Time Step No. = 1420 Elapsed Time = 2.563752E+06 days
7087    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7089    Time Step No. = 1421 Elapsed Time = 2.565752E+06 days
7090    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7092    Time Step No. = 1422 Elapsed Time = 2.567752E+06 days
7093    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7095    Time Step No. = 1423 Elapsed Time = 2.569752E+06 days
7096    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7098    Time Step No. = 1424 Elapsed Time = 2.571752E+06 days
7099    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
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7101    Time Step No. = 1425 Elapsed Time = 2.573752E+06 days
7102    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7104    Time Step No. = 1426 Elapsed Time = 2.575752E+06 days
7105    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
7107    Time Step No. = 1427 Elapsed Time = 2.577752E+06 days
7108    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
7110    Time Step No. = 1428 Elapsed Time = 2.579752E+06 days
7111    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
7113    Time Step No. = 1429 Elapsed Time = 2.581752E+06 days
7114    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
7116    Time Step No. = 1430 Elapsed Time = 2.583752E+06 days
7117    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
7119    Time Step No. = 1431 Elapsed Time = 2.585752E+06 days
7120    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
7122    Time Step No. = 1432 Elapsed Time = 2.587752E+06 days
7123    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7125    Time Step No. = 1433 Elapsed Time = 2.589752E+06 days
7126    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7128    Time Step No. = 1434 Elapsed Time = 2.591752E+06 days
7129    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7131    Time Step No. = 1435 Elapsed Time = 2.593752E+06 days
7132    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7134    Time Step No. = 1436 Elapsed Time = 2.595752E+06 days
7135    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7137    Time Step No. = 1437 Elapsed Time = 2.597752E+06 days
7138    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7140    Time Step No. = 1438 Elapsed Time = 2.599752E+06 days
7141    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
7143    Time Step No. = 1439 Elapsed Time = 2.601752E+06 days
7144    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7146    Time Step No. = 1440 Elapsed Time = 2.603752E+06 days
7147    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7149    Time Step No. = 1441 Elapsed Time = 2.605752E+06 days
7150    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7152    Time Step No. = 1442 Elapsed Time = 2.607752E+06 days
7153    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7155    Time Step No. = 1443 Elapsed Time = 2.609752E+06 days
7156    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7158    Time Step No. = 1444 Elapsed Time = 2.611752E+06 days
7159    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
7161    Time Step No. = 1445 Elapsed Time = 2.613752E+06 days
7162    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7164    Time Step No. = 1446 Elapsed Time = 2.615752E+06 days
7165    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7167    Time Step No. = 1447 Elapsed Time = 2.617752E+06 days
7168    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7170    Time Step No. = 1448 Elapsed Time = 2.619752E+06 days
7171    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7173    Time Step No. = 1449 Elapsed Time = 2.621752E+06 days
7174    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7176    Time Step No. = 1450 Elapsed Time = 2.623752E+06 days
7177    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
7179    Time Step No. = 1451 Elapsed Time = 2.625752E+06 days
7180    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7182    Time Step No. = 1452 Elapsed Time = 2.627752E+06 days
7183    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7185    Time Step No. = 1453 Elapsed Time = 2.629752E+06 days
7186    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7188    Time Step No. = 1454 Elapsed Time = 2.631752E+06 days
7189    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7191    Time Step No. = 1455 Elapsed Time = 2.633752E+06 days
7192    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7194    Time Step No. = 1456 Elapsed Time = 2.635752E+06 days
7195    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7197    Time Step No. = 1457 Elapsed Time = 2.637752E+06 days
7198    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7200    Time Step No. = 1458 Elapsed Time = 2.639752E+06 days
7201    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7203    Time Step No. = 1459 Elapsed Time = 2.641752E+06 days
7204    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7206    Time Step No. = 1460 Elapsed Time = 2.643752E+06 days
7207    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7209    Time Step No. = 1461 Elapsed Time = 2.645752E+06 days
7210    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
7212    Time Step No. = 1462 Elapsed Time = 2.647752E+06 days
7213    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
```

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7215    Time Step No. = 1463 Elapsed Time = 2.649752E+06 days
7216    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7218    Time Step No. = 1464 Elapsed Time = 2.651752E+06 days
7219    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7221    Time Step No. = 1465 Elapsed Time = 2.653752E+06 days
7222    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7224    Time Step No. = 1466 Elapsed Time = 2.655752E+06 days
7225    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7227    Time Step No. = 1467 Elapsed Time = 2.657752E+06 days
7228    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7230    Time Step No. = 1468 Elapsed Time = 2.659752E+06 days
7231    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7233    Time Step No. = 1469 Elapsed Time = 2.661752E+06 days
7234    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
7236    Time Step No. = 1470 Elapsed Time = 2.663752E+06 days
7237    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7239    Time Step No. = 1471 Elapsed Time = 2.665752E+06 days
7240    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7242    Time Step No. = 1472 Elapsed Time = 2.667752E+06 days
7243    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7245    Time Step No. = 1473 Elapsed Time = 2.669752E+06 days
7246    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7248    Time Step No. = 1474 Elapsed Time = 2.671752E+06 days
7249    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7251    Time Step No. = 1475 Elapsed Time = 2.673752E+06 days
7252    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7254    Time Step No. = 1476 Elapsed Time = 2.675752E+06 days
7255    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7257    Time Step No. = 1477 Elapsed Time = 2.677752E+06 days
7258    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7260    Time Step No. = 1478 Elapsed Time = 2.679752E+06 days
7261    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7263    Time Step No. = 1479 Elapsed Time = 2.681752E+06 days
7264    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7266    Time Step No. = 1480 Elapsed Time = 2.683752E+06 days
7267    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7269    Time Step No. = 1481 Elapsed Time = 2.685752E+06 days
7270    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
7272    Time Step No. = 1482 Elapsed Time = 2.687752E+06 days
7273    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
7275    Time Step No. = 1483 Elapsed Time = 2.689752E+06 days
7276    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
7278    Time Step No. = 1484 Elapsed Time = 2.691752E+06 days
7279    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
7281    Time Step No. = 1485 Elapsed Time = 2.693752E+06 days
7282    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
7284    Time Step No. = 1486 Elapsed Time = 2.695752E+06 days
7285    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
7287    Time Step No. = 1487 Elapsed Time = 2.697752E+06 days
7288    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7290    Time Step No. = 1488 Elapsed Time = 2.699752E+06 days
7291    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7293    Time Step No. = 1489 Elapsed Time = 2.701752E+06 days
7294    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7296    Time Step No. = 1490 Elapsed Time = 2.703752E+06 days
7297    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7299    Time Step No. = 1491 Elapsed Time = 2.705752E+06 days
7300    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7302    Time Step No. = 1492 Elapsed Time = 2.707752E+06 days
7303    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7305    Time Step No. = 1493 Elapsed Time = 2.709752E+06 days
7306    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
7308    Time Step No. = 1494 Elapsed Time = 2.711752E+06 days
7309    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7311    Time Step No. = 1495 Elapsed Time = 2.713752E+06 days
7312    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7314    Time Step No. = 1496 Elapsed Time = 2.715752E+06 days
7315    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7317    Time Step No. = 1497 Elapsed Time = 2.717752E+06 days
7318    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7320    Time Step No. = 1498 Elapsed Time = 2.719752E+06 days
7321    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7323    Time Step No. = 1499 Elapsed Time = 2.721752E+06 days
7324    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
7326    Time Step No. = 1500 Elapsed Time = 2.723752E+06 days
7327    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
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7329    Time Step No. = 1501 Elapsed Time = 2.725752E+06 days
7330    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
7332    Time Step No. = 1502 Elapsed Time = 2.727752E+06 days
7333    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
7335    Time Step No. = 1503 Elapsed Time = 2.729752E+06 days
7336    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
7338    Time Step No. = 1504 Elapsed Time = 2.731752E+06 days
7339    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
7341    Time Step No. = 1505 Elapsed Time = 2.733752E+06 days
7342    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7344    Time Step No. = 1506 Elapsed Time = 2.735752E+06 days
7345    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7347    Time Step No. = 1507 Elapsed Time = 2.737752E+06 days
7348    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7350    Time Step No. = 1508 Elapsed Time = 2.739752E+06 days
7351    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7353    Time Step No. = 1509 Elapsed Time = 2.741752E+06 days
7354    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7356    Time Step No. = 1510 Elapsed Time = 2.743752E+06 days
7357    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7359    Time Step No. = 1511 Elapsed Time = 2.745752E+06 days
7360    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7362    Time Step No. = 1512 Elapsed Time = 2.747752E+06 days
7363    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
7365    Time Step No. = 1513 Elapsed Time = 2.749752E+06 days
7366    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
7368    Time Step No. = 1514 Elapsed Time = 2.751752E+06 days
7369    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
7371    Time Step No. = 1515 Elapsed Time = 2.753752E+06 days
7372    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
7374    Time Step No. = 1516 Elapsed Time = 2.755752E+06 days
7375    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
7377    Time Step No. = 1517 Elapsed Time = 2.757752E+06 days
7378    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
7380    Time Step No. = 1518 Elapsed Time = 2.759752E+06 days
7381    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7383    Time Step No. = 1519 Elapsed Time = 2.761752E+06 days
7384    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7386    Time Step No. = 1520 Elapsed Time = 2.763752E+06 days
7387    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7389    Time Step No. = 1521 Elapsed Time = 2.765752E+06 days
7390    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7392    Time Step No. = 1522 Elapsed Time = 2.767752E+06 days
7393    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7395    Time Step No. = 1523 Elapsed Time = 2.769752E+06 days
7396    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7398    Time Step No. = 1524 Elapsed Time = 2.771752E+06 days
7399    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7401    Time Step No. = 1525 Elapsed Time = 2.773752E+06 days
7402    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7404    Time Step No. = 1526 Elapsed Time = 2.775752E+06 days
7405    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7407    Time Step No. = 1527 Elapsed Time = 2.777752E+06 days
7408    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7410    Time Step No. = 1528 Elapsed Time = 2.779752E+06 days
7411    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7413    Time Step No. = 1529 Elapsed Time = 2.781752E+06 days
7414    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7416    Time Step No. = 1530 Elapsed Time = 2.783752E+06 days
7417    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7419    Time Step No. = 1531 Elapsed Time = 2.785752E+06 days
7420    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7422    Time Step No. = 1532 Elapsed Time = 2.787752E+06 days
7423    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7425    Time Step No. = 1533 Elapsed Time = 2.789752E+06 days
7426    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7428    Time Step No. = 1534 Elapsed Time = 2.791752E+06 days
7429    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7431    Time Step No. = 1535 Elapsed Time = 2.793752E+06 days
7432    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7434    Time Step No. = 1536 Elapsed Time = 2.795752E+06 days
7435    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7437    Time Step No. = 1537 Elapsed Time = 2.797752E+06 days
7438    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7440    Time Step No. = 1538 Elapsed Time = 2.799752E+06 days
7441    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
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7443    Time Step No. = 1539 Elapsed Time = 2.801752E+06 days
7444    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7446    Time Step No. = 1540 Elapsed Time = 2.803752E+06 days
7447    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7449    Time Step No. = 1541 Elapsed Time = 2.805752E+06 days
7450    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7452    Time Step No. = 1542 Elapsed Time = 2.807752E+06 days
7453    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7455    Time Step No. = 1543 Elapsed Time = 2.809752E+06 days
7456    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7458    Time Step No. = 1544 Elapsed Time = 2.811752E+06 days
7459    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7461    Time Step No. = 1545 Elapsed Time = 2.813752E+06 days
7462    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7464    Time Step No. = 1546 Elapsed Time = 2.815752E+06 days
7465    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7467    Time Step No. = 1547 Elapsed Time = 2.817752E+06 days
7468    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7470    Time Step No. = 1548 Elapsed Time = 2.819752E+06 days
7471    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7473    Time Step No. = 1549 Elapsed Time = 2.821752E+06 days
7474    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7476    Time Step No. = 1550 Elapsed Time = 2.823752E+06 days
7477    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7479    Time Step No. = 1551 Elapsed Time = 2.825752E+06 days
7480    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7482    Time Step No. = 1552 Elapsed Time = 2.827752E+06 days
7483    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7485    Time Step No. = 1553 Elapsed Time = 2.829752E+06 days
7486    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7488    Time Step No. = 1554 Elapsed Time = 2.831752E+06 days
7489    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7491    Time Step No. = 1555 Elapsed Time = 2.833752E+06 days
7492    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7494    Time Step No. = 1556 Elapsed Time = 2.835752E+06 days
7495    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7497    Time Step No. = 1557 Elapsed Time = 2.837752E+06 days
7498    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7500    Time Step No. = 1558 Elapsed Time = 2.839752E+06 days
7501    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7503    Time Step No. = 1559 Elapsed Time = 2.841752E+06 days
7504    Date: 02/15/07 Time: 12:58:19 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7506    Time Step No. = 1560 Elapsed Time = 2.843752E+06 days
7507    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7509    Time Step No. = 1561 Elapsed Time = 2.845752E+06 days
7510    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7512    Time Step No. = 1562 Elapsed Time = 2.847752E+06 days
7513    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7515    Time Step No. = 1563 Elapsed Time = 2.849752E+06 days
7516    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7518    Time Step No. = 1564 Elapsed Time = 2.851752E+06 days
7519    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7521    Time Step No. = 1565 Elapsed Time = 2.853752E+06 days
7522    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7524    Time Step No. = 1566 Elapsed Time = 2.855752E+06 days
7525    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7527    Time Step No. = 1567 Elapsed Time = 2.857752E+06 days
7528    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7530    Time Step No. = 1568 Elapsed Time = 2.859752E+06 days
7531    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7533    Time Step No. = 1569 Elapsed Time = 2.861752E+06 days
7534    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7536    Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
7537    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7539    Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
7540    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7542    Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
7543    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7545    Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
7546    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7548    Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
7549    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7551    Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
7552    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7554    Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
7555    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
```

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7557     Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
7558     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7560     Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
7561     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7563     Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
7564     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7566     Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
7567     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7569     Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
7570     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7572     Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
7573     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7575     Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
7576     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7578     Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
7579     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7581     Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
7582     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7584     Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
7585     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7587     Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
7588     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7590     Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
7591     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7593     Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
7594     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7596     Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
7597     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7599     Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
7600     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7602     Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
7603     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7605     Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
7606     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7608     Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
7609     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7611     Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
7612     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7614     Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
7615     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7617     Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
7618     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7620     Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
7621     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7623     Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
7624     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7627    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
4882     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) ASCII
4884     Time Step No. = 686 Elapsed Time = 1.095752E+06 days
4885     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4887     Time Step No. = 687 Elapsed Time = 1.097752E+06 days
4888     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4890     Time Step No. = 688 Elapsed Time = 1.099752E+06 days
4891     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4893     Time Step No. = 689 Elapsed Time = 1.101752E+06 days
4894     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4896     Time Step No. = 690 Elapsed Time = 1.103752E+06 days
4897     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4899     Time Step No. = 691 Elapsed Time = 1.105752E+06 days
4900     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.36 ( 1.36 sec) Binary
4902     Time Step No. = 692 Elapsed Time = 1.107752E+06 days
4903     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4905     Time Step No. = 693 Elapsed Time = 1.109752E+06 days
4906     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4908     Time Step No. = 694 Elapsed Time = 1.111752E+06 days
4909     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4911     Time Step No. = 695 Elapsed Time = 1.113752E+06 days
4912     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4914     Time Step No. = 696 Elapsed Time = 1.115752E+06 days
4915     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4917     Time Step No. = 697 Elapsed Time = 1.117752E+06 days
4918     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
4920     Time Step No. = 698 Elapsed Time = 1.119752E+06 days
4921     Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.37 ( 1.37 sec) Binary
```

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4923 Time Step No. = 699 Elapsed Time = 1.121752E+06 days
4924 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4926 Time Step No. = 700 Elapsed Time = 1.123752E+06 days
4927 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4929 Time Step No. = 701 Elapsed Time = 1.125752E+06 days
4930 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4932 Time Step No. = 702 Elapsed Time = 1.127752E+06 days
4933 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4935 Time Step No. = 703 Elapsed Time = 1.129752E+06 days
4936 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4938 Time Step No. = 704 Elapsed Time = 1.131752E+06 days
4939 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.38 ( 1.38 sec) Binary
4941 Time Step No. = 705 Elapsed Time = 1.133752E+06 days
4942 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4944 Time Step No. = 706 Elapsed Time = 1.135752E+06 days
4945 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4947 Time Step No. = 707 Elapsed Time = 1.137752E+06 days
4948 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4950 Time Step No. = 708 Elapsed Time = 1.139752E+06 days
4951 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4953 Time Step No. = 709 Elapsed Time = 1.141752E+06 days
4954 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4956 Time Step No. = 710 Elapsed Time = 1.143752E+06 days
4957 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.39 ( 1.39 sec) Binary
4959 Time Step No. = 711 Elapsed Time = 1.145752E+06 days
4960 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4962 Time Step No. = 712 Elapsed Time = 1.147752E+06 days
4963 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4965 Time Step No. = 713 Elapsed Time = 1.149752E+06 days
4966 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4968 Time Step No. = 714 Elapsed Time = 1.151752E+06 days
4969 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4971 Time Step No. = 715 Elapsed Time = 1.153752E+06 days
4972 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4974 Time Step No. = 716 Elapsed Time = 1.155752E+06 days
4975 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.40 ( 1.40 sec) Binary
4977 Time Step No. = 717 Elapsed Time = 1.157752E+06 days
4978 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4980 Time Step No. = 718 Elapsed Time = 1.159752E+06 days
4981 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4983 Time Step No. = 719 Elapsed Time = 1.161752E+06 days
4984 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4986 Time Step No. = 720 Elapsed Time = 1.163752E+06 days
4987 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4989 Time Step No. = 721 Elapsed Time = 1.165752E+06 days
4990 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4992 Time Step No. = 722 Elapsed Time = 1.167752E+06 days
4993 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4995 Time Step No. = 723 Elapsed Time = 1.169752E+06 days
4996 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.41 ( 1.41 sec) Binary
4998 Time Step No. = 724 Elapsed Time = 1.171752E+06 days
4999 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5001 Time Step No. = 725 Elapsed Time = 1.173752E+06 days
5002 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.42 ( 1.42 sec) Binary
5004 Time Step No. = 726 Elapsed Time = 1.175752E+06 days
5005 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5007 Time Step No. = 727 Elapsed Time = 1.177752E+06 days
5008 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5010 Time Step No. = 728 Elapsed Time = 1.179752E+06 days
5011 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5013 Time Step No. = 729 Elapsed Time = 1.181752E+06 days
5014 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.43 ( 1.43 sec) Binary
5016 Time Step No. = 730 Elapsed Time = 1.183752E+06 days
5017 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5019 Time Step No. = 731 Elapsed Time = 1.185752E+06 days
5020 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5022 Time Step No. = 732 Elapsed Time = 1.187752E+06 days
5023 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5025 Time Step No. = 733 Elapsed Time = 1.189752E+06 days
5026 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5028 Time Step No. = 734 Elapsed Time = 1.191752E+06 days
5029 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5031 Time Step No. = 735 Elapsed Time = 1.193752E+06 days
5032 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
5034 Time Step No. = 736 Elapsed Time = 1.195752E+06 days
5035 Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.44 ( 1.44 sec) Binary
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5037    Time Step No. = 737 Elapsed Time = 1.197752E+06 days
5038    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5040    Time Step No. = 738 Elapsed Time = 1.199752E+06 days
5041    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5043    Time Step No. = 739 Elapsed Time = 1.201752E+06 days
5044    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5046    Time Step No. = 740 Elapsed Time = 1.203752E+06 days
5047    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5049    Time Step No. = 741 Elapsed Time = 1.205752E+06 days
5050    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5052    Time Step No. = 742 Elapsed Time = 1.207752E+06 days
5053    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.45 ( 1.45 sec) Binary
5055    Time Step No. = 743 Elapsed Time = 1.209752E+06 days
5056    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5058    Time Step No. = 744 Elapsed Time = 1.211752E+06 days
5059    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5061    Time Step No. = 745 Elapsed Time = 1.213752E+06 days
5062    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5064    Time Step No. = 746 Elapsed Time = 1.215752E+06 days
5065    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5067    Time Step No. = 747 Elapsed Time = 1.217752E+06 days
5068    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5070    Time Step No. = 748 Elapsed Time = 1.219752E+06 days
5071    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.46 ( 1.46 sec) Binary
5073    Time Step No. = 749 Elapsed Time = 1.221752E+06 days
5074    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5076    Time Step No. = 750 Elapsed Time = 1.223752E+06 days
5077    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5079    Time Step No. = 751 Elapsed Time = 1.225752E+06 days
5080    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5082    Time Step No. = 752 Elapsed Time = 1.227752E+06 days
5083    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5085    Time Step No. = 753 Elapsed Time = 1.229752E+06 days
5086    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5088    Time Step No. = 754 Elapsed Time = 1.231752E+06 days
5089    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.47 ( 1.47 sec) Binary
5091    Time Step No. = 755 Elapsed Time = 1.233752E+06 days
5092    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5094    Time Step No. = 756 Elapsed Time = 1.235752E+06 days
5095    Date: 02/14/07 Time: 16:02:42 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5097    Time Step No. = 757 Elapsed Time = 1.237752E+06 days
5098    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5100    Time Step No. = 758 Elapsed Time = 1.239752E+06 days
5101    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5103    Time Step No. = 759 Elapsed Time = 1.241752E+06 days
5104    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5106    Time Step No. = 760 Elapsed Time = 1.243752E+06 days
5107    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.48 ( 1.48 sec) Binary
5109    Time Step No. = 761 Elapsed Time = 1.245752E+06 days
5110    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5112    Time Step No. = 762 Elapsed Time = 1.247752E+06 days
5113    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5115    Time Step No. = 763 Elapsed Time = 1.249752E+06 days
5116    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5118    Time Step No. = 764 Elapsed Time = 1.251752E+06 days
5119    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5121    Time Step No. = 765 Elapsed Time = 1.253752E+06 days
5122    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5124    Time Step No. = 766 Elapsed Time = 1.255752E+06 days
5125    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.49 ( 1.49 sec) Binary
5127    Time Step No. = 767 Elapsed Time = 1.257752E+06 days
5128    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5130    Time Step No. = 768 Elapsed Time = 1.259752E+06 days
5131    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5133    Time Step No. = 769 Elapsed Time = 1.261752E+06 days
5134    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5136    Time Step No. = 770 Elapsed Time = 1.263752E+06 days
5137    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5139    Time Step No. = 771 Elapsed Time = 1.265752E+06 days
5140    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5142    Time Step No. = 772 Elapsed Time = 1.267752E+06 days
5143    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5145    Time Step No. = 773 Elapsed Time = 1.269752E+06 days
5146    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
5148    Time Step No. = 774 Elapsed Time = 1.271752E+06 days
5149    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.50 ( 1.50 sec) Binary
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5151    Time Step No. = 775 Elapsed Time = 1.273752E+06 days
5152    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5154    Time Step No. = 776 Elapsed Time = 1.275752E+06 days
5155    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5157    Time Step No. = 777 Elapsed Time = 1.277752E+06 days
5158    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5160    Time Step No. = 778 Elapsed Time = 1.279752E+06 days
5161    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5163    Time Step No. = 779 Elapsed Time = 1.281752E+06 days
5164    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.51 ( 1.51 sec) Binary
5166    Time Step No. = 780 Elapsed Time = 1.283752E+06 days
5167    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5169    Time Step No. = 781 Elapsed Time = 1.285752E+06 days
5170    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5172    Time Step No. = 782 Elapsed Time = 1.287752E+06 days
5173    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5175    Time Step No. = 783 Elapsed Time = 1.289752E+06 days
5176    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5178    Time Step No. = 784 Elapsed Time = 1.291752E+06 days
5179    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5181    Time Step No. = 785 Elapsed Time = 1.293752E+06 days
5182    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.52 ( 1.52 sec) Binary
5184    Time Step No. = 786 Elapsed Time = 1.295752E+06 days
5185    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5187    Time Step No. = 787 Elapsed Time = 1.297752E+06 days
5188    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5190    Time Step No. = 788 Elapsed Time = 1.299752E+06 days
5191    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5193    Time Step No. = 789 Elapsed Time = 1.301752E+06 days
5194    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5196    Time Step No. = 790 Elapsed Time = 1.303752E+06 days
5197    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5199    Time Step No. = 791 Elapsed Time = 1.305752E+06 days
5200    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.53 ( 1.53 sec) Binary
5202    Time Step No. = 792 Elapsed Time = 1.307752E+06 days
5203    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5205    Time Step No. = 793 Elapsed Time = 1.309752E+06 days
5206    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5208    Time Step No. = 794 Elapsed Time = 1.311752E+06 days
5209    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5211    Time Step No. = 795 Elapsed Time = 1.313752E+06 days
5212    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5214    Time Step No. = 796 Elapsed Time = 1.315752E+06 days
5215    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5217    Time Step No. = 797 Elapsed Time = 1.317752E+06 days
5218    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5220    Time Step No. = 798 Elapsed Time = 1.319752E+06 days
5221    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.54 ( 1.54 sec) Binary
5223    Time Step No. = 799 Elapsed Time = 1.321752E+06 days
5224    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5226    Time Step No. = 800 Elapsed Time = 1.323752E+06 days
5227    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5229    Time Step No. = 801 Elapsed Time = 1.325752E+06 days
5230    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5232    Time Step No. = 802 Elapsed Time = 1.327752E+06 days
5233    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5235    Time Step No. = 803 Elapsed Time = 1.329752E+06 days
5236    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5238    Time Step No. = 804 Elapsed Time = 1.331752E+06 days
5239    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.55 ( 1.55 sec) Binary
5241    Time Step No. = 805 Elapsed Time = 1.333752E+06 days
5242    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5244    Time Step No. = 806 Elapsed Time = 1.335752E+06 days
5245    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5247    Time Step No. = 807 Elapsed Time = 1.337752E+06 days
5248    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5250    Time Step No. = 808 Elapsed Time = 1.339752E+06 days
5251    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5253    Time Step No. = 809 Elapsed Time = 1.341752E+06 days
5254    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.56 ( 1.56 sec) Binary
5256    Time Step No. = 810 Elapsed Time = 1.343752E+06 days
5257    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5259    Time Step No. = 811 Elapsed Time = 1.345752E+06 days
5260    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5262    Time Step No. = 812 Elapsed Time = 1.347752E+06 days
5263    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
```

```
5265    Time Step No. = 813 Elapsed Time = 1.349752E+06 days
5266    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5268    Time Step No. = 814 Elapsed Time = 1.351752E+06 days
5269    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5271    Time Step No. = 815 Elapsed Time = 1.353752E+06 days
5272    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.57 ( 1.57 sec) Binary
5274    Time Step No. = 816 Elapsed Time = 1.355752E+06 days
5275    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5277    Time Step No. = 817 Elapsed Time = 1.357752E+06 days
5278    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5280    Time Step No. = 818 Elapsed Time = 1.359752E+06 days
5281    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5283    Time Step No. = 819 Elapsed Time = 1.361752E+06 days
5284    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5286    Time Step No. = 820 Elapsed Time = 1.363752E+06 days
5287    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5289    Time Step No. = 821 Elapsed Time = 1.365752E+06 days
5290    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.58 ( 1.58 sec) Binary
5292    Time Step No. = 822 Elapsed Time = 1.367752E+06 days
5293    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5295    Time Step No. = 823 Elapsed Time = 1.369752E+06 days
5296    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5298    Time Step No. = 824 Elapsed Time = 1.371752E+06 days
5299    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5301    Time Step No. = 825 Elapsed Time = 1.373752E+06 days
5302    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5304    Time Step No. = 826 Elapsed Time = 1.375752E+06 days
5305    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5307    Time Step No. = 827 Elapsed Time = 1.377752E+06 days
5308    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.59 ( 1.59 sec) Binary
5310    Time Step No. = 828 Elapsed Time = 1.379752E+06 days
5311    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5313    Time Step No. = 829 Elapsed Time = 1.381752E+06 days
5314    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5316    Time Step No. = 830 Elapsed Time = 1.383752E+06 days
5317    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5319    Time Step No. = 831 Elapsed Time = 1.385752E+06 days
5320    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5322    Time Step No. = 832 Elapsed Time = 1.387752E+06 days
5323    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5325    Time Step No. = 833 Elapsed Time = 1.389752E+06 days
5326    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5328    Time Step No. = 834 Elapsed Time = 1.391752E+06 days
5329    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5331    Time Step No. = 835 Elapsed Time = 1.393752E+06 days
5332    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5334    Time Step No. = 836 Elapsed Time = 1.395752E+06 days
5335    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5337    Time Step No. = 837 Elapsed Time = 1.397752E+06 days
5338    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5340    Time Step No. = 838 Elapsed Time = 1.399752E+06 days
5341    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5343    Time Step No. = 839 Elapsed Time = 1.401752E+06 days
5344    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5346    Time Step No. = 840 Elapsed Time = 1.403752E+06 days
5347    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.60 ( 1.60 sec) Binary
5349    Time Step No. = 841 Elapsed Time = 1.405752E+06 days
5350    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5352    Time Step No. = 842 Elapsed Time = 1.407752E+06 days
5353    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5355    Time Step No. = 843 Elapsed Time = 1.409752E+06 days
5356    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5358    Time Step No. = 844 Elapsed Time = 1.411752E+06 days
5359    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5361    Time Step No. = 845 Elapsed Time = 1.413752E+06 days
5362    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.61 ( 1.61 sec) Binary
5364    Time Step No. = 846 Elapsed Time = 1.415752E+06 days
5365    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5367    Time Step No. = 847 Elapsed Time = 1.417752E+06 days
5368    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5370    Time Step No. = 848 Elapsed Time = 1.419752E+06 days
5371    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5373    Time Step No. = 849 Elapsed Time = 1.421752E+06 days
5374    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
5376    Time Step No. = 850 Elapsed Time = 1.423752E+06 days
5377    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 ( 1.62 sec) Binary
```

5379 Time Step No. = 851 Elapsed Time = 1.425752E+06 days
5380 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.62 (1.62 sec) Binary
5382 Time Step No. = 852 Elapsed Time = 1.427752E+06 days
5383 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5385 Time Step No. = 853 Elapsed Time = 1.429752E+06 days
5386 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5388 Time Step No. = 854 Elapsed Time = 1.431752E+06 days
5389 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5391 Time Step No. = 855 Elapsed Time = 1.433752E+06 days
5392 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5394 Time Step No. = 856 Elapsed Time = 1.435752E+06 days
5395 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5397 Time Step No. = 857 Elapsed Time = 1.437752E+06 days
5398 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5400 Time Step No. = 858 Elapsed Time = 1.439752E+06 days
5401 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5403 Time Step No. = 859 Elapsed Time = 1.441752E+06 days
5404 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5406 Time Step No. = 860 Elapsed Time = 1.443752E+06 days
5407 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5409 Time Step No. = 861 Elapsed Time = 1.445752E+06 days
5410 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5412 Time Step No. = 862 Elapsed Time = 1.447752E+06 days
5413 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5415 Time Step No. = 863 Elapsed Time = 1.449752E+06 days
5416 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5418 Time Step No. = 864 Elapsed Time = 1.451752E+06 days
5419 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.63 (1.63 sec) Binary
5421 Time Step No. = 865 Elapsed Time = 1.453752E+06 days
5422 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5424 Time Step No. = 866 Elapsed Time = 1.455752E+06 days
5425 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5427 Time Step No. = 867 Elapsed Time = 1.457752E+06 days
5428 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5430 Time Step No. = 868 Elapsed Time = 1.459752E+06 days
5431 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5433 Time Step No. = 869 Elapsed Time = 1.461752E+06 days
5434 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5436 Time Step No. = 870 Elapsed Time = 1.463752E+06 days
5437 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.64 (1.64 sec) Binary
5439 Time Step No. = 871 Elapsed Time = 1.465752E+06 days
5440 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5442 Time Step No. = 872 Elapsed Time = 1.467752E+06 days
5443 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5445 Time Step No. = 873 Elapsed Time = 1.469752E+06 days
5446 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5448 Time Step No. = 874 Elapsed Time = 1.471752E+06 days
5449 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5451 Time Step No. = 875 Elapsed Time = 1.473752E+06 days
5452 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5454 Time Step No. = 876 Elapsed Time = 1.475752E+06 days
5455 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5457 Time Step No. = 877 Elapsed Time = 1.477752E+06 days
5458 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5460 Time Step No. = 878 Elapsed Time = 1.479752E+06 days
5461 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5463 Time Step No. = 879 Elapsed Time = 1.481752E+06 days
5464 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5466 Time Step No. = 880 Elapsed Time = 1.483752E+06 days
5467 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.65 (1.65 sec) Binary
5469 Time Step No. = 881 Elapsed Time = 1.485752E+06 days
5470 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5472 Time Step No. = 882 Elapsed Time = 1.487752E+06 days
5473 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5475 Time Step No. = 883 Elapsed Time = 1.489752E+06 days
5476 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5478 Time Step No. = 884 Elapsed Time = 1.491752E+06 days
5479 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5481 Time Step No. = 885 Elapsed Time = 1.493752E+06 days
5482 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5484 Time Step No. = 886 Elapsed Time = 1.495752E+06 days
5485 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5487 Time Step No. = 887 Elapsed Time = 1.497752E+06 days
5488 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary
5490 Time Step No. = 888 Elapsed Time = 1.499752E+06 days
5491 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 (1.66 sec) Binary

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5493    Time Step No. = 889 Elapsed Time = 1.501752E+06 days
5494    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5496    Time Step No. = 890 Elapsed Time = 1.503752E+06 days
5497    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.66 ( 1.66 sec) Binary
5499    Time Step No. = 891 Elapsed Time = 1.505752E+06 days
5500    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5502    Time Step No. = 892 Elapsed Time = 1.507752E+06 days
5503    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5505    Time Step No. = 893 Elapsed Time = 1.509752E+06 days
5506    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5508    Time Step No. = 894 Elapsed Time = 1.511752E+06 days
5509    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5511    Time Step No. = 895 Elapsed Time = 1.513752E+06 days
5512    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5514    Time Step No. = 896 Elapsed Time = 1.515752E+06 days
5515    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.67 ( 1.67 sec) Binary
5517    Time Step No. = 897 Elapsed Time = 1.517752E+06 days
5518    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5520    Time Step No. = 898 Elapsed Time = 1.519752E+06 days
5521    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5523    Time Step No. = 899 Elapsed Time = 1.521752E+06 days
5524    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5526    Time Step No. = 900 Elapsed Time = 1.523752E+06 days
5527    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5529    Time Step No. = 901 Elapsed Time = 1.525752E+06 days
5530    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.68 ( 1.68 sec) Binary
5532    Time Step No. = 902 Elapsed Time = 1.527752E+06 days
5533    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5535    Time Step No. = 903 Elapsed Time = 1.529752E+06 days
5536    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5538    Time Step No. = 904 Elapsed Time = 1.531752E+06 days
5539    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5541    Time Step No. = 905 Elapsed Time = 1.533752E+06 days
5542    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5544    Time Step No. = 906 Elapsed Time = 1.535752E+06 days
5545    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5547    Time Step No. = 907 Elapsed Time = 1.537752E+06 days
5548    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5550    Time Step No. = 908 Elapsed Time = 1.539752E+06 days
5551    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.69 ( 1.69 sec) Binary
5553    Time Step No. = 909 Elapsed Time = 1.541752E+06 days
5554    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5556    Time Step No. = 910 Elapsed Time = 1.543752E+06 days
5557    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5559    Time Step No. = 911 Elapsed Time = 1.545752E+06 days
5560    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5562    Time Step No. = 912 Elapsed Time = 1.547752E+06 days
5563    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5565    Time Step No. = 913 Elapsed Time = 1.549752E+06 days
5566    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5568    Time Step No. = 914 Elapsed Time = 1.551752E+06 days
5569    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.70 ( 1.70 sec) Binary
5571    Time Step No. = 915 Elapsed Time = 1.553752E+06 days
5572    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5574    Time Step No. = 916 Elapsed Time = 1.555752E+06 days
5575    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5577    Time Step No. = 917 Elapsed Time = 1.557752E+06 days
5578    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5580    Time Step No. = 918 Elapsed Time = 1.559752E+06 days
5581    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5583    Time Step No. = 919 Elapsed Time = 1.561752E+06 days
5584    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5586    Time Step No. = 920 Elapsed Time = 1.563752E+06 days
5587    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5589    Time Step No. = 921 Elapsed Time = 1.565752E+06 days
5590    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.71 ( 1.71 sec) Binary
5592    Time Step No. = 922 Elapsed Time = 1.567752E+06 days
5593    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5595    Time Step No. = 923 Elapsed Time = 1.569752E+06 days
5596    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5598    Time Step No. = 924 Elapsed Time = 1.571752E+06 days
5599    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5601    Time Step No. = 925 Elapsed Time = 1.573752E+06 days
5602    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
5604    Time Step No. = 926 Elapsed Time = 1.575752E+06 days
5605    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.72 ( 1.72 sec) Binary
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5607    Time Step No. = 927 Elapsed Time = 1.577752E+06 days
5608    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5610    Time Step No. = 928 Elapsed Time = 1.579752E+06 days
5611    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5613    Time Step No. = 929 Elapsed Time = 1.581752E+06 days
5614    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5616    Time Step No. = 930 Elapsed Time = 1.583752E+06 days
5617    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5619    Time Step No. = 931 Elapsed Time = 1.585752E+06 days
5620    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5622    Time Step No. = 932 Elapsed Time = 1.587752E+06 days
5623    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.73 ( 1.73 sec) Binary
5625    Time Step No. = 933 Elapsed Time = 1.589752E+06 days
5626    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5628    Time Step No. = 934 Elapsed Time = 1.591752E+06 days
5629    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5631    Time Step No. = 935 Elapsed Time = 1.593752E+06 days
5632    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5634    Time Step No. = 936 Elapsed Time = 1.595752E+06 days
5635    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5637    Time Step No. = 937 Elapsed Time = 1.597752E+06 days
5638    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5640    Time Step No. = 938 Elapsed Time = 1.599752E+06 days
5641    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5643    Time Step No. = 939 Elapsed Time = 1.601752E+06 days
5644    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.74 ( 1.74 sec) Binary
5646    Time Step No. = 940 Elapsed Time = 1.603752E+06 days
5647    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5649    Time Step No. = 941 Elapsed Time = 1.605752E+06 days
5650    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5652    Time Step No. = 942 Elapsed Time = 1.607752E+06 days
5653    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5655    Time Step No. = 943 Elapsed Time = 1.609752E+06 days
5656    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5658    Time Step No. = 944 Elapsed Time = 1.611752E+06 days
5659    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5661    Time Step No. = 945 Elapsed Time = 1.613752E+06 days
5662    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.75 ( 1.75 sec) Binary
5664    Time Step No. = 946 Elapsed Time = 1.615752E+06 days
5665    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5667    Time Step No. = 947 Elapsed Time = 1.617752E+06 days
5668    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5670    Time Step No. = 948 Elapsed Time = 1.619752E+06 days
5671    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5673    Time Step No. = 949 Elapsed Time = 1.621752E+06 days
5674    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5676    Time Step No. = 950 Elapsed Time = 1.623752E+06 days
5677    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5679    Time Step No. = 951 Elapsed Time = 1.625752E+06 days
5680    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.76 ( 1.76 sec) Binary
5682    Time Step No. = 952 Elapsed Time = 1.627752E+06 days
5683    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5685    Time Step No. = 953 Elapsed Time = 1.629752E+06 days
5686    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5688    Time Step No. = 954 Elapsed Time = 1.631752E+06 days
5689    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5691    Time Step No. = 955 Elapsed Time = 1.633752E+06 days
5692    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5694    Time Step No. = 956 Elapsed Time = 1.635752E+06 days
5695    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5697    Time Step No. = 957 Elapsed Time = 1.637752E+06 days
5698    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.77 ( 1.77 sec) Binary
5700    Time Step No. = 958 Elapsed Time = 1.639752E+06 days
5701    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5703    Time Step No. = 959 Elapsed Time = 1.641752E+06 days
5704    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5706    Time Step No. = 960 Elapsed Time = 1.643752E+06 days
5707    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5709    Time Step No. = 961 Elapsed Time = 1.645752E+06 days
5710    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5712    Time Step No. = 962 Elapsed Time = 1.647752E+06 days
5713    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5715    Time Step No. = 963 Elapsed Time = 1.649752E+06 days
5716    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
5718    Time Step No. = 964 Elapsed Time = 1.651752E+06 days
5719    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.78 ( 1.78 sec) Binary
```

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5721    Time Step No. = 965 Elapsed Time = 1.653752E+06 days
5722    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5724    Time Step No. = 966 Elapsed Time = 1.655752E+06 days
5725    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5727    Time Step No. = 967 Elapsed Time = 1.657752E+06 days
5728    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5730    Time Step No. = 968 Elapsed Time = 1.659752E+06 days
5731    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5733    Time Step No. = 969 Elapsed Time = 1.661752E+06 days
5734    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5736    Time Step No. = 970 Elapsed Time = 1.663752E+06 days
5737    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5739    Time Step No. = 971 Elapsed Time = 1.665752E+06 days
5740    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5742    Time Step No. = 972 Elapsed Time = 1.667752E+06 days
5743    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5745    Time Step No. = 973 Elapsed Time = 1.669752E+06 days
5746    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.79 ( 1.79 sec) Binary
5748    Time Step No. = 974 Elapsed Time = 1.671752E+06 days
5749    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5751    Time Step No. = 975 Elapsed Time = 1.673752E+06 days
5752    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5754    Time Step No. = 976 Elapsed Time = 1.675752E+06 days
5755    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5757    Time Step No. = 977 Elapsed Time = 1.677752E+06 days
5758    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5760    Time Step No. = 978 Elapsed Time = 1.679752E+06 days
5761    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5763    Time Step No. = 979 Elapsed Time = 1.681752E+06 days
5764    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.80 ( 1.80 sec) Binary
5766    Time Step No. = 980 Elapsed Time = 1.683752E+06 days
5767    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5769    Time Step No. = 981 Elapsed Time = 1.685752E+06 days
5770    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5772    Time Step No. = 982 Elapsed Time = 1.687752E+06 days
5773    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5775    Time Step No. = 983 Elapsed Time = 1.689752E+06 days
5776    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5778    Time Step No. = 984 Elapsed Time = 1.691752E+06 days
5779    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5781    Time Step No. = 985 Elapsed Time = 1.693752E+06 days
5782    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5784    Time Step No. = 986 Elapsed Time = 1.695752E+06 days
5785    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.81 ( 1.81 sec) Binary
5787    Time Step No. = 987 Elapsed Time = 1.697752E+06 days
5788    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5790    Time Step No. = 988 Elapsed Time = 1.699752E+06 days
5791    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5793    Time Step No. = 989 Elapsed Time = 1.701752E+06 days
5794    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5796    Time Step No. = 990 Elapsed Time = 1.703752E+06 days
5797    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5799    Time Step No. = 991 Elapsed Time = 1.705752E+06 days
5800    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5802    Time Step No. = 992 Elapsed Time = 1.707752E+06 days
5803    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.82 ( 1.82 sec) Binary
5805    Time Step No. = 993 Elapsed Time = 1.709752E+06 days
5806    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5808    Time Step No. = 994 Elapsed Time = 1.711752E+06 days
5809    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5811    Time Step No. = 995 Elapsed Time = 1.713752E+06 days
5812    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5814    Time Step No. = 996 Elapsed Time = 1.715752E+06 days
5815    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5817    Time Step No. = 997 Elapsed Time = 1.717752E+06 days
5818    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.83 ( 1.83 sec) Binary
5820    Time Step No. = 998 Elapsed Time = 1.719752E+06 days
5821    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5823    Time Step No. = 999 Elapsed Time = 1.721752E+06 days
5824    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5826    Time Step No. = 1000 Elapsed Time = 1.723752E+06 days
5827    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5829    Time Step No. = 1001 Elapsed Time = 1.725752E+06 days
5830    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5832    Time Step No. = 1002 Elapsed Time = 1.727752E+06 days
5833    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
```

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5835 Time Step No. = 1003 Elapsed Time = 1.729752E+06 days
5836 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5838 Time Step No. = 1004 Elapsed Time = 1.731752E+06 days
5839 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5841 Time Step No. = 1005 Elapsed Time = 1.733752E+06 days
5842 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5844 Time Step No. = 1006 Elapsed Time = 1.735752E+06 days
5845 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5847 Time Step No. = 1007 Elapsed Time = 1.737752E+06 days
5848 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5850 Time Step No. = 1008 Elapsed Time = 1.739752E+06 days
5851 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5853 Time Step No. = 1009 Elapsed Time = 1.741752E+06 days
5854 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5856 Time Step No. = 1010 Elapsed Time = 1.743752E+06 days
5857 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.84 ( 1.84 sec) Binary
5859 Time Step No. = 1011 Elapsed Time = 1.745752E+06 days
5860 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5862 Time Step No. = 1012 Elapsed Time = 1.747752E+06 days
5863 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5865 Time Step No. = 1013 Elapsed Time = 1.749752E+06 days
5866 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5868 Time Step No. = 1014 Elapsed Time = 1.751752E+06 days
5869 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5871 Time Step No. = 1015 Elapsed Time = 1.753752E+06 days
5872 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5874 Time Step No. = 1016 Elapsed Time = 1.755752E+06 days
5875 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.85 ( 1.85 sec) Binary
5877 Time Step No. = 1017 Elapsed Time = 1.757752E+06 days
5878 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5880 Time Step No. = 1018 Elapsed Time = 1.759752E+06 days
5881 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5883 Time Step No. = 1019 Elapsed Time = 1.761752E+06 days
5884 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5886 Time Step No. = 1020 Elapsed Time = 1.763752E+06 days
5887 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5889 Time Step No. = 1021 Elapsed Time = 1.765752E+06 days
5890 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5892 Time Step No. = 1022 Elapsed Time = 1.767752E+06 days
5893 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5895 Time Step No. = 1023 Elapsed Time = 1.769752E+06 days
5896 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5898 Time Step No. = 1024 Elapsed Time = 1.771752E+06 days
5899 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5901 Time Step No. = 1025 Elapsed Time = 1.773752E+06 days
5902 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5904 Time Step No. = 1026 Elapsed Time = 1.775752E+06 days
5905 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5907 Time Step No. = 1027 Elapsed Time = 1.777752E+06 days
5908 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5910 Time Step No. = 1028 Elapsed Time = 1.779752E+06 days
5911 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5913 Time Step No. = 1029 Elapsed Time = 1.781752E+06 days
5914 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.86 ( 1.86 sec) Binary
5916 Time Step No. = 1030 Elapsed Time = 1.783752E+06 days
5917 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5919 Time Step No. = 1031 Elapsed Time = 1.785752E+06 days
5920 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5922 Time Step No. = 1032 Elapsed Time = 1.787752E+06 days
5923 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5925 Time Step No. = 1033 Elapsed Time = 1.789752E+06 days
5926 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5928 Time Step No. = 1034 Elapsed Time = 1.791752E+06 days
5929 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.87 ( 1.87 sec) Binary
5931 Time Step No. = 1035 Elapsed Time = 1.793752E+06 days
5932 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5934 Time Step No. = 1036 Elapsed Time = 1.795752E+06 days
5935 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5937 Time Step No. = 1037 Elapsed Time = 1.797752E+06 days
5938 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5940 Time Step No. = 1038 Elapsed Time = 1.799752E+06 days
5941 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5943 Time Step No. = 1039 Elapsed Time = 1.801752E+06 days
5944 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
5946 Time Step No. = 1040 Elapsed Time = 1.803752E+06 days
5947 Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.88 ( 1.88 sec) Binary
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5949    Time Step No. = 1041 Elapsed Time = 1.805752E+06 days
5950    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5952    Time Step No. = 1042 Elapsed Time = 1.807752E+06 days
5953    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5955    Time Step No. = 1043 Elapsed Time = 1.809752E+06 days
5956    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5958    Time Step No. = 1044 Elapsed Time = 1.811752E+06 days
5959    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5961    Time Step No. = 1045 Elapsed Time = 1.813752E+06 days
5962    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5964    Time Step No. = 1046 Elapsed Time = 1.815752E+06 days
5965    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5967    Time Step No. = 1047 Elapsed Time = 1.817752E+06 days
5968    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5970    Time Step No. = 1048 Elapsed Time = 1.819752E+06 days
5971    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5973    Time Step No. = 1049 Elapsed Time = 1.821752E+06 days
5974    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5976    Time Step No. = 1050 Elapsed Time = 1.823752E+06 days
5977    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5979    Time Step No. = 1051 Elapsed Time = 1.825752E+06 days
5980    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.89 ( 1.89 sec) Binary
5982    Time Step No. = 1052 Elapsed Time = 1.827752E+06 days
5983    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5985    Time Step No. = 1053 Elapsed Time = 1.829752E+06 days
5986    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5988    Time Step No. = 1054 Elapsed Time = 1.831752E+06 days
5989    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5991    Time Step No. = 1055 Elapsed Time = 1.833752E+06 days
5992    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5994    Time Step No. = 1056 Elapsed Time = 1.835752E+06 days
5995    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
5997    Time Step No. = 1057 Elapsed Time = 1.837752E+06 days
5998    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6000    Time Step No. = 1058 Elapsed Time = 1.839752E+06 days
6001    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6003    Time Step No. = 1059 Elapsed Time = 1.841752E+06 days
6004    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.90 ( 1.90 sec) Binary
6006    Time Step No. = 1060 Elapsed Time = 1.843752E+06 days
6007    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6009    Time Step No. = 1061 Elapsed Time = 1.845752E+06 days
6010    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6012    Time Step No. = 1062 Elapsed Time = 1.847752E+06 days
6013    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6015    Time Step No. = 1063 Elapsed Time = 1.849752E+06 days
6016    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6018    Time Step No. = 1064 Elapsed Time = 1.851752E+06 days
6019    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.91 ( 1.91 sec) Binary
6021    Time Step No. = 1065 Elapsed Time = 1.853752E+06 days
6022    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6024    Time Step No. = 1066 Elapsed Time = 1.855752E+06 days
6025    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6027    Time Step No. = 1067 Elapsed Time = 1.857752E+06 days
6028    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6030    Time Step No. = 1068 Elapsed Time = 1.859752E+06 days
6031    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6033    Time Step No. = 1069 Elapsed Time = 1.861752E+06 days
6034    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.92 ( 1.92 sec) Binary
6036    Time Step No. = 1070 Elapsed Time = 1.863752E+06 days
6037    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6039    Time Step No. = 1071 Elapsed Time = 1.865752E+06 days
6040    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6042    Time Step No. = 1072 Elapsed Time = 1.867752E+06 days
6043    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6045    Time Step No. = 1073 Elapsed Time = 1.869752E+06 days
6046    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6048    Time Step No. = 1074 Elapsed Time = 1.871752E+06 days
6049    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.93 ( 1.93 sec) Binary
6051    Time Step No. = 1075 Elapsed Time = 1.873752E+06 days
6052    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6054    Time Step No. = 1076 Elapsed Time = 1.875752E+06 days
6055    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6057    Time Step No. = 1077 Elapsed Time = 1.877752E+06 days
6058    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6060    Time Step No. = 1078 Elapsed Time = 1.879752E+06 days
6061    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
```

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6063    Time Step No. = 1079 Elapsed Time = 1.881752E+06 days
6064    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6066    Time Step No. = 1080 Elapsed Time = 1.883752E+06 days
6067    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6069    Time Step No. = 1081 Elapsed Time = 1.885752E+06 days
6070    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6072    Time Step No. = 1082 Elapsed Time = 1.887752E+06 days
6073    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6075    Time Step No. = 1083 Elapsed Time = 1.889752E+06 days
6076    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6078    Time Step No. = 1084 Elapsed Time = 1.891752E+06 days
6079    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6081    Time Step No. = 1085 Elapsed Time = 1.893752E+06 days
6082    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6084    Time Step No. = 1086 Elapsed Time = 1.895752E+06 days
6085    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.94 ( 1.94 sec) Binary
6087    Time Step No. = 1087 Elapsed Time = 1.897752E+06 days
6088    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6090    Time Step No. = 1088 Elapsed Time = 1.899752E+06 days
6091    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6093    Time Step No. = 1089 Elapsed Time = 1.901752E+06 days
6094    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6096    Time Step No. = 1090 Elapsed Time = 1.903752E+06 days
6097    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6099    Time Step No. = 1091 Elapsed Time = 1.905752E+06 days
6100    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6102    Time Step No. = 1092 Elapsed Time = 1.907752E+06 days
6103    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6105    Time Step No. = 1093 Elapsed Time = 1.909752E+06 days
6106    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.95 ( 1.95 sec) Binary
6108    Time Step No. = 1094 Elapsed Time = 1.911752E+06 days
6109    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6111    Time Step No. = 1095 Elapsed Time = 1.913752E+06 days
6112    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6114    Time Step No. = 1096 Elapsed Time = 1.915752E+06 days
6115    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6117    Time Step No. = 1097 Elapsed Time = 1.917752E+06 days
6118    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6120    Time Step No. = 1098 Elapsed Time = 1.919752E+06 days
6121    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6123    Time Step No. = 1099 Elapsed Time = 1.921752E+06 days
6124    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.96 ( 1.96 sec) Binary
6126    Time Step No. = 1100 Elapsed Time = 1.923752E+06 days
6127    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6129    Time Step No. = 1101 Elapsed Time = 1.925752E+06 days
6130    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6132    Time Step No. = 1102 Elapsed Time = 1.927752E+06 days
6133    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6135    Time Step No. = 1103 Elapsed Time = 1.929752E+06 days
6136    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6138    Time Step No. = 1104 Elapsed Time = 1.931752E+06 days
6139    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6141    Time Step No. = 1105 Elapsed Time = 1.933752E+06 days
6142    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.97 ( 1.97 sec) Binary
6144    Time Step No. = 1106 Elapsed Time = 1.935752E+06 days
6145    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6147    Time Step No. = 1107 Elapsed Time = 1.937752E+06 days
6148    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6150    Time Step No. = 1108 Elapsed Time = 1.939752E+06 days
6151    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6153    Time Step No. = 1109 Elapsed Time = 1.941752E+06 days
6154    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6156    Time Step No. = 1110 Elapsed Time = 1.943752E+06 days
6157    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6159    Time Step No. = 1111 Elapsed Time = 1.945752E+06 days
6160    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.98 ( 1.98 sec) Binary
6162    Time Step No. = 1112 Elapsed Time = 1.947752E+06 days
6163    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6165    Time Step No. = 1113 Elapsed Time = 1.949752E+06 days
6166    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6168    Time Step No. = 1114 Elapsed Time = 1.951752E+06 days
6169    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6171    Time Step No. = 1115 Elapsed Time = 1.953752E+06 days
6172    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6174    Time Step No. = 1116 Elapsed Time = 1.955752E+06 days
6175    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
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6177    Time Step No. = 1117 Elapsed Time = 1.957752E+06 days
6178    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 1.99 ( 1.99 sec) Binary
6180    Time Step No. = 1118 Elapsed Time = 1.959752E+06 days
6181    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6183    Time Step No. = 1119 Elapsed Time = 1.961752E+06 days
6184    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6186    Time Step No. = 1120 Elapsed Time = 1.963752E+06 days
6187    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6189    Time Step No. = 1121 Elapsed Time = 1.965752E+06 days
6190    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6192    Time Step No. = 1122 Elapsed Time = 1.967752E+06 days
6193    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6195    Time Step No. = 1123 Elapsed Time = 1.969752E+06 days
6196    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.00 ( 2.00 sec) Binary
6198    Time Step No. = 1124 Elapsed Time = 1.971752E+06 days
6199    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6201    Time Step No. = 1125 Elapsed Time = 1.973752E+06 days
6202    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6204    Time Step No. = 1126 Elapsed Time = 1.975752E+06 days
6205    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6207    Time Step No. = 1127 Elapsed Time = 1.977752E+06 days
6208    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6210    Time Step No. = 1128 Elapsed Time = 1.979752E+06 days
6211    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.01 ( 2.01 sec) Binary
6213    Time Step No. = 1129 Elapsed Time = 1.981752E+06 days
6214    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6216    Time Step No. = 1130 Elapsed Time = 1.983752E+06 days
6217    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6219    Time Step No. = 1131 Elapsed Time = 1.985752E+06 days
6220    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6222    Time Step No. = 1132 Elapsed Time = 1.987752E+06 days
6223    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6225    Time Step No. = 1133 Elapsed Time = 1.989752E+06 days
6226    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6228    Time Step No. = 1134 Elapsed Time = 1.991752E+06 days
6229    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.02 ( 2.02 sec) Binary
6231    Time Step No. = 1135 Elapsed Time = 1.993752E+06 days
6232    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6234    Time Step No. = 1136 Elapsed Time = 1.995752E+06 days
6235    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6237    Time Step No. = 1137 Elapsed Time = 1.997752E+06 days
6238    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6240    Time Step No. = 1138 Elapsed Time = 1.999752E+06 days
6241    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6243    Time Step No. = 1139 Elapsed Time = 2.001752E+06 days
6244    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6246    Time Step No. = 1140 Elapsed Time = 2.003752E+06 days
6247    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6249    Time Step No. = 1141 Elapsed Time = 2.005752E+06 days
6250    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.03 ( 2.03 sec) Binary
6252    Time Step No. = 1142 Elapsed Time = 2.007752E+06 days
6253    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6255    Time Step No. = 1143 Elapsed Time = 2.009752E+06 days
6256    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6258    Time Step No. = 1144 Elapsed Time = 2.011752E+06 days
6259    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6261    Time Step No. = 1145 Elapsed Time = 2.013752E+06 days
6262    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6264    Time Step No. = 1146 Elapsed Time = 2.015752E+06 days
6265    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6267    Time Step No. = 1147 Elapsed Time = 2.017752E+06 days
6268    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.04 ( 2.04 sec) Binary
6270    Time Step No. = 1148 Elapsed Time = 2.019752E+06 days
6271    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6273    Time Step No. = 1149 Elapsed Time = 2.021752E+06 days
6274    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6276    Time Step No. = 1150 Elapsed Time = 2.023752E+06 days
6277    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6279    Time Step No. = 1151 Elapsed Time = 2.025752E+06 days
6280    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6282    Time Step No. = 1152 Elapsed Time = 2.027752E+06 days
6283    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6285    Time Step No. = 1153 Elapsed Time = 2.029752E+06 days
6286    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6288    Time Step No. = 1154 Elapsed Time = 2.031752E+06 days
6289    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
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6291    Time Step No. = 1155 Elapsed Time = 2.033752E+06 days
6292    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6294    Time Step No. = 1156 Elapsed Time = 2.035752E+06 days
6295    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6297    Time Step No. = 1157 Elapsed Time = 2.037752E+06 days
6298    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6300    Time Step No. = 1158 Elapsed Time = 2.039752E+06 days
6301    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6303    Time Step No. = 1159 Elapsed Time = 2.041752E+06 days
6304    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.05 ( 2.05 sec) Binary
6306    Time Step No. = 1160 Elapsed Time = 2.043752E+06 days
6307    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6309    Time Step No. = 1161 Elapsed Time = 2.045752E+06 days
6310    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6312    Time Step No. = 1162 Elapsed Time = 2.047752E+06 days
6313    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6315    Time Step No. = 1163 Elapsed Time = 2.049752E+06 days
6316    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6318    Time Step No. = 1164 Elapsed Time = 2.051752E+06 days
6319    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6321    Time Step No. = 1165 Elapsed Time = 2.053752E+06 days
6322    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6324    Time Step No. = 1166 Elapsed Time = 2.055752E+06 days
6325    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.06 ( 2.06 sec) Binary
6327    Time Step No. = 1167 Elapsed Time = 2.057752E+06 days
6328    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6330    Time Step No. = 1168 Elapsed Time = 2.059752E+06 days
6331    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6333    Time Step No. = 1169 Elapsed Time = 2.061752E+06 days
6334    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6336    Time Step No. = 1170 Elapsed Time = 2.063752E+06 days
6337    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6339    Time Step No. = 1171 Elapsed Time = 2.065752E+06 days
6340    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6342    Time Step No. = 1172 Elapsed Time = 2.067752E+06 days
6343    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.07 ( 2.07 sec) Binary
6345    Time Step No. = 1173 Elapsed Time = 2.069752E+06 days
6346    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6348    Time Step No. = 1174 Elapsed Time = 2.071752E+06 days
6349    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6351    Time Step No. = 1175 Elapsed Time = 2.073752E+06 days
6352    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6354    Time Step No. = 1176 Elapsed Time = 2.075752E+06 days
6355    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6357    Time Step No. = 1177 Elapsed Time = 2.077752E+06 days
6358    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6360    Time Step No. = 1178 Elapsed Time = 2.079752E+06 days
6361    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6363    Time Step No. = 1179 Elapsed Time = 2.081752E+06 days
6364    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.08 ( 2.08 sec) Binary
6366    Time Step No. = 1180 Elapsed Time = 2.083752E+06 days
6367    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6369    Time Step No. = 1181 Elapsed Time = 2.085752E+06 days
6370    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6372    Time Step No. = 1182 Elapsed Time = 2.087752E+06 days
6373    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6375    Time Step No. = 1183 Elapsed Time = 2.089752E+06 days
6376    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.09 ( 2.09 sec) Binary
6378    Time Step No. = 1184 Elapsed Time = 2.091752E+06 days
6379    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6381    Time Step No. = 1185 Elapsed Time = 2.093752E+06 days
6382    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6384    Time Step No. = 1186 Elapsed Time = 2.095752E+06 days
6385    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6387    Time Step No. = 1187 Elapsed Time = 2.097752E+06 days
6388    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6390    Time Step No. = 1188 Elapsed Time = 2.099752E+06 days
6391    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6393    Time Step No. = 1189 Elapsed Time = 2.101752E+06 days
6394    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6396    Time Step No. = 1190 Elapsed Time = 2.103752E+06 days
6397    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.10 ( 2.10 sec) Binary
6399    Time Step No. = 1191 Elapsed Time = 2.105752E+06 days
6400    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6402    Time Step No. = 1192 Elapsed Time = 2.107752E+06 days
6403    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
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6405    Time Step No. = 1193 Elapsed Time = 2.109752E+06 days
6406    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6408    Time Step No. = 1194 Elapsed Time = 2.111752E+06 days
6409    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6411    Time Step No. = 1195 Elapsed Time = 2.113752E+06 days
6412    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6414    Time Step No. = 1196 Elapsed Time = 2.115752E+06 days
6415    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6417    Time Step No. = 1197 Elapsed Time = 2.117752E+06 days
6418    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6420    Time Step No. = 1198 Elapsed Time = 2.119752E+06 days
6421    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6423    Time Step No. = 1199 Elapsed Time = 2.121752E+06 days
6424    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6426    Time Step No. = 1200 Elapsed Time = 2.123752E+06 days
6427    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6429    Time Step No. = 1201 Elapsed Time = 2.125752E+06 days
6430    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6432    Time Step No. = 1202 Elapsed Time = 2.127752E+06 days
6433    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.11 ( 2.11 sec) Binary
6435    Time Step No. = 1203 Elapsed Time = 2.129752E+06 days
6436    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6438    Time Step No. = 1204 Elapsed Time = 2.131752E+06 days
6439    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6441    Time Step No. = 1205 Elapsed Time = 2.133752E+06 days
6442    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6444    Time Step No. = 1206 Elapsed Time = 2.135752E+06 days
6445    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6447    Time Step No. = 1207 Elapsed Time = 2.137752E+06 days
6448    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6450    Time Step No. = 1208 Elapsed Time = 2.139752E+06 days
6451    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6453    Time Step No. = 1209 Elapsed Time = 2.141752E+06 days
6454    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6456    Time Step No. = 1210 Elapsed Time = 2.143752E+06 days
6457    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6459    Time Step No. = 1211 Elapsed Time = 2.145752E+06 days
6460    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6462    Time Step No. = 1212 Elapsed Time = 2.147752E+06 days
6463    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.12 ( 2.12 sec) Binary
6465    Time Step No. = 1213 Elapsed Time = 2.149752E+06 days
6466    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6468    Time Step No. = 1214 Elapsed Time = 2.151752E+06 days
6469    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6471    Time Step No. = 1215 Elapsed Time = 2.153752E+06 days
6472    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6474    Time Step No. = 1216 Elapsed Time = 2.155752E+06 days
6475    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6477    Time Step No. = 1217 Elapsed Time = 2.157752E+06 days
6478    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6480    Time Step No. = 1218 Elapsed Time = 2.159752E+06 days
6481    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6483    Time Step No. = 1219 Elapsed Time = 2.161752E+06 days
6484    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6486    Time Step No. = 1220 Elapsed Time = 2.163752E+06 days
6487    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6489    Time Step No. = 1221 Elapsed Time = 2.165752E+06 days
6490    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6492    Time Step No. = 1222 Elapsed Time = 2.167752E+06 days
6493    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6495    Time Step No. = 1223 Elapsed Time = 2.169752E+06 days
6496    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.13 ( 2.13 sec) Binary
6498    Time Step No. = 1224 Elapsed Time = 2.171752E+06 days
6499    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6501    Time Step No. = 1225 Elapsed Time = 2.173752E+06 days
6502    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6504    Time Step No. = 1226 Elapsed Time = 2.175752E+06 days
6505    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6507    Time Step No. = 1227 Elapsed Time = 2.177752E+06 days
6508    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6510    Time Step No. = 1228 Elapsed Time = 2.179752E+06 days
6511    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.14 ( 2.14 sec) Binary
6513    Time Step No. = 1229 Elapsed Time = 2.181752E+06 days
6514    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6516    Time Step No. = 1230 Elapsed Time = 2.183752E+06 days
6517    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
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6519   Time Step No. = 1231 Elapsed Time = 2.185752E+06 days
6520   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6522   Time Step No. = 1232 Elapsed Time = 2.187752E+06 days
6523   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6525   Time Step No. = 1233 Elapsed Time = 2.189752E+06 days
6526   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6528   Time Step No. = 1234 Elapsed Time = 2.191752E+06 days
6529   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6531   Time Step No. = 1235 Elapsed Time = 2.193752E+06 days
6532   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.15 ( 2.15 sec) Binary
6534   Time Step No. = 1236 Elapsed Time = 2.195752E+06 days
6535   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6537   Time Step No. = 1237 Elapsed Time = 2.197752E+06 days
6538   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6540   Time Step No. = 1238 Elapsed Time = 2.199752E+06 days
6541   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6543   Time Step No. = 1239 Elapsed Time = 2.201752E+06 days
6544   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6546   Time Step No. = 1240 Elapsed Time = 2.203752E+06 days
6547   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6549   Time Step No. = 1241 Elapsed Time = 2.205752E+06 days
6550   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.16 ( 2.16 sec) Binary
6552   Time Step No. = 1242 Elapsed Time = 2.207752E+06 days
6553   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6555   Time Step No. = 1243 Elapsed Time = 2.209752E+06 days
6556   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6558   Time Step No. = 1244 Elapsed Time = 2.211752E+06 days
6559   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6561   Time Step No. = 1245 Elapsed Time = 2.213752E+06 days
6562   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6564   Time Step No. = 1246 Elapsed Time = 2.215752E+06 days
6565   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6567   Time Step No. = 1247 Elapsed Time = 2.217752E+06 days
6568   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6570   Time Step No. = 1248 Elapsed Time = 2.219752E+06 days
6571   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6573   Time Step No. = 1249 Elapsed Time = 2.221752E+06 days
6574   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6576   Time Step No. = 1250 Elapsed Time = 2.223752E+06 days
6577   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6579   Time Step No. = 1251 Elapsed Time = 2.225752E+06 days
6580   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6582   Time Step No. = 1252 Elapsed Time = 2.227752E+06 days
6583   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6585   Time Step No. = 1253 Elapsed Time = 2.229752E+06 days
6586   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6588   Time Step No. = 1254 Elapsed Time = 2.231752E+06 days
6589   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.17 ( 2.17 sec) Binary
6591   Time Step No. = 1255 Elapsed Time = 2.233752E+06 days
6592   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6594   Time Step No. = 1256 Elapsed Time = 2.235752E+06 days
6595   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6597   Time Step No. = 1257 Elapsed Time = 2.237752E+06 days
6598   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6600   Time Step No. = 1258 Elapsed Time = 2.239752E+06 days
6601   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6603   Time Step No. = 1259 Elapsed Time = 2.241752E+06 days
6604   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6606   Time Step No. = 1260 Elapsed Time = 2.243752E+06 days
6607   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.18 ( 2.18 sec) Binary
6609   Time Step No. = 1261 Elapsed Time = 2.245752E+06 days
6610   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6612   Time Step No. = 1262 Elapsed Time = 2.247752E+06 days
6613   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6615   Time Step No. = 1263 Elapsed Time = 2.249752E+06 days
6616   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6618   Time Step No. = 1264 Elapsed Time = 2.251752E+06 days
6619   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6621   Time Step No. = 1265 Elapsed Time = 2.253752E+06 days
6622   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.19 ( 2.19 sec) Binary
6624   Time Step No. = 1266 Elapsed Time = 2.255752E+06 days
6625   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6627   Time Step No. = 1267 Elapsed Time = 2.257752E+06 days
6628   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6630   Time Step No. = 1268 Elapsed Time = 2.259752E+06 days
6631   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
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6633    Time Step No. = 1269 Elapsed Time = 2.261752E+06 days
6634    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6636    Time Step No. = 1270 Elapsed Time = 2.263752E+06 days
6637    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6639    Time Step No. = 1271 Elapsed Time = 2.265752E+06 days
6640    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6642    Time Step No. = 1272 Elapsed Time = 2.267752E+06 days
6643    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6645    Time Step No. = 1273 Elapsed Time = 2.269752E+06 days
6646    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6648    Time Step No. = 1274 Elapsed Time = 2.271752E+06 days
6649    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6651    Time Step No. = 1275 Elapsed Time = 2.273752E+06 days
6652    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6654    Time Step No. = 1276 Elapsed Time = 2.275752E+06 days
6655    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6657    Time Step No. = 1277 Elapsed Time = 2.277752E+06 days
6658    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.20 ( 2.20 sec) Binary
6660    Time Step No. = 1278 Elapsed Time = 2.279752E+06 days
6661    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6663    Time Step No. = 1279 Elapsed Time = 2.281752E+06 days
6664    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6666    Time Step No. = 1280 Elapsed Time = 2.283752E+06 days
6667    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6669    Time Step No. = 1281 Elapsed Time = 2.285752E+06 days
6670    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6672    Time Step No. = 1282 Elapsed Time = 2.287752E+06 days
6673    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6675    Time Step No. = 1283 Elapsed Time = 2.289752E+06 days
6676    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.21 ( 2.21 sec) Binary
6678    Time Step No. = 1284 Elapsed Time = 2.291752E+06 days
6679    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6681    Time Step No. = 1285 Elapsed Time = 2.293752E+06 days
6682    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6684    Time Step No. = 1286 Elapsed Time = 2.295752E+06 days
6685    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6687    Time Step No. = 1287 Elapsed Time = 2.297752E+06 days
6688    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6690    Time Step No. = 1288 Elapsed Time = 2.299752E+06 days
6691    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6693    Time Step No. = 1289 Elapsed Time = 2.301752E+06 days
6694    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.22 ( 2.22 sec) Binary
6696    Time Step No. = 1290 Elapsed Time = 2.303752E+06 days
6697    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6699    Time Step No. = 1291 Elapsed Time = 2.305752E+06 days
6700    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6702    Time Step No. = 1292 Elapsed Time = 2.307752E+06 days
6703    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6705    Time Step No. = 1293 Elapsed Time = 2.309752E+06 days
6706    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6708    Time Step No. = 1294 Elapsed Time = 2.311752E+06 days
6709    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6711    Time Step No. = 1295 Elapsed Time = 2.313752E+06 days
6712    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6714    Time Step No. = 1296 Elapsed Time = 2.315752E+06 days
6715    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.23 ( 2.23 sec) Binary
6717    Time Step No. = 1297 Elapsed Time = 2.317752E+06 days
6718    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6720    Time Step No. = 1298 Elapsed Time = 2.319752E+06 days
6721    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6723    Time Step No. = 1299 Elapsed Time = 2.321752E+06 days
6724    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6726    Time Step No. = 1300 Elapsed Time = 2.323752E+06 days
6727    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6729    Time Step No. = 1301 Elapsed Time = 2.325752E+06 days
6730    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6732    Time Step No. = 1302 Elapsed Time = 2.327752E+06 days
6733    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6735    Time Step No. = 1303 Elapsed Time = 2.329752E+06 days
6736    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6738    Time Step No. = 1304 Elapsed Time = 2.331752E+06 days
6739    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6741    Time Step No. = 1305 Elapsed Time = 2.333752E+06 days
6742    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6744    Time Step No. = 1306 Elapsed Time = 2.335752E+06 days
6745    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
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6747   Time Step No. = 1307 Elapsed Time = 2.337752E+06 days
6748   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6750   Time Step No. = 1308 Elapsed Time = 2.339752E+06 days
6751   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.24 ( 2.24 sec) Binary
6753   Time Step No. = 1309 Elapsed Time = 2.341752E+06 days
6754   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6756   Time Step No. = 1310 Elapsed Time = 2.343752E+06 days
6757   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6759   Time Step No. = 1311 Elapsed Time = 2.345752E+06 days
6760   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6762   Time Step No. = 1312 Elapsed Time = 2.347752E+06 days
6763   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.25 ( 2.25 sec) Binary
6765   Time Step No. = 1313 Elapsed Time = 2.349752E+06 days
6766   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6768   Time Step No. = 1314 Elapsed Time = 2.351752E+06 days
6769   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6771   Time Step No. = 1315 Elapsed Time = 2.353752E+06 days
6772   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6774   Time Step No. = 1316 Elapsed Time = 2.355752E+06 days
6775   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6777   Time Step No. = 1317 Elapsed Time = 2.357752E+06 days
6778   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6780   Time Step No. = 1318 Elapsed Time = 2.359752E+06 days
6781   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.26 ( 2.26 sec) Binary
6783   Time Step No. = 1319 Elapsed Time = 2.361752E+06 days
6784   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6786   Time Step No. = 1320 Elapsed Time = 2.363752E+06 days
6787   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6789   Time Step No. = 1321 Elapsed Time = 2.365752E+06 days
6790   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.27 ( 2.27 sec) Binary
6792   Time Step No. = 1322 Elapsed Time = 2.367752E+06 days
6793   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6795   Time Step No. = 1323 Elapsed Time = 2.369752E+06 days
6796   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6798   Time Step No. = 1324 Elapsed Time = 2.371752E+06 days
6799   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6801   Time Step No. = 1325 Elapsed Time = 2.373752E+06 days
6802   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6804   Time Step No. = 1326 Elapsed Time = 2.375752E+06 days
6805   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6807   Time Step No. = 1327 Elapsed Time = 2.377752E+06 days
6808   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6810   Time Step No. = 1328 Elapsed Time = 2.379752E+06 days
6811   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.28 ( 2.28 sec) Binary
6813   Time Step No. = 1329 Elapsed Time = 2.381752E+06 days
6814   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6816   Time Step No. = 1330 Elapsed Time = 2.383752E+06 days
6817   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6819   Time Step No. = 1331 Elapsed Time = 2.385752E+06 days
6820   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6822   Time Step No. = 1332 Elapsed Time = 2.387752E+06 days
6823   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6825   Time Step No. = 1333 Elapsed Time = 2.389752E+06 days
6826   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6828   Time Step No. = 1334 Elapsed Time = 2.391752E+06 days
6829   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.29 ( 2.29 sec) Binary
6831   Time Step No. = 1335 Elapsed Time = 2.393752E+06 days
6832   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6834   Time Step No. = 1336 Elapsed Time = 2.395752E+06 days
6835   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6837   Time Step No. = 1337 Elapsed Time = 2.397752E+06 days
6838   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6840   Time Step No. = 1338 Elapsed Time = 2.399752E+06 days
6841   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6843   Time Step No. = 1339 Elapsed Time = 2.401752E+06 days
6844   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6846   Time Step No. = 1340 Elapsed Time = 2.403752E+06 days
6847   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6849   Time Step No. = 1341 Elapsed Time = 2.405752E+06 days
6850   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.30 ( 2.30 sec) Binary
6852   Time Step No. = 1342 Elapsed Time = 2.407752E+06 days
6853   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6855   Time Step No. = 1343 Elapsed Time = 2.409752E+06 days
6856   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6858   Time Step No. = 1344 Elapsed Time = 2.411752E+06 days
6859   Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
```

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6861    Time Step No. = 1345 Elapsed Time = 2.413752E+06 days
6862    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6864    Time Step No. = 1346 Elapsed Time = 2.415752E+06 days
6865    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6867    Time Step No. = 1347 Elapsed Time = 2.417752E+06 days
6868    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6870    Time Step No. = 1348 Elapsed Time = 2.419752E+06 days
6871    Date: 02/14/07 Time: 16:02:43 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6873    Time Step No. = 1349 Elapsed Time = 2.421752E+06 days
6874    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6876    Time Step No. = 1350 Elapsed Time = 2.423752E+06 days
6877    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6879    Time Step No. = 1351 Elapsed Time = 2.425752E+06 days
6880    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6882    Time Step No. = 1352 Elapsed Time = 2.427752E+06 days
6883    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.31 ( 2.31 sec) Binary
6885    Time Step No. = 1353 Elapsed Time = 2.429752E+06 days
6886    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6888    Time Step No. = 1354 Elapsed Time = 2.431752E+06 days
6889    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6891    Time Step No. = 1355 Elapsed Time = 2.433752E+06 days
6892    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6894    Time Step No. = 1356 Elapsed Time = 2.435752E+06 days
6895    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6897    Time Step No. = 1357 Elapsed Time = 2.437752E+06 days
6898    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6900    Time Step No. = 1358 Elapsed Time = 2.439752E+06 days
6901    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6903    Time Step No. = 1359 Elapsed Time = 2.441752E+06 days
6904    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6906    Time Step No. = 1360 Elapsed Time = 2.443752E+06 days
6907    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6909    Time Step No. = 1361 Elapsed Time = 2.445752E+06 days
6910    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6912    Time Step No. = 1362 Elapsed Time = 2.447752E+06 days
6913    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6915    Time Step No. = 1363 Elapsed Time = 2.449752E+06 days
6916    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6918    Time Step No. = 1364 Elapsed Time = 2.451752E+06 days
6919    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6921    Time Step No. = 1365 Elapsed Time = 2.453752E+06 days
6922    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.32 ( 2.32 sec) Binary
6924    Time Step No. = 1366 Elapsed Time = 2.455752E+06 days
6925    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6927    Time Step No. = 1367 Elapsed Time = 2.457752E+06 days
6928    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6930    Time Step No. = 1368 Elapsed Time = 2.459752E+06 days
6931    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6933    Time Step No. = 1369 Elapsed Time = 2.461752E+06 days
6934    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6936    Time Step No. = 1370 Elapsed Time = 2.463752E+06 days
6937    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6939    Time Step No. = 1371 Elapsed Time = 2.465752E+06 days
6940    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6942    Time Step No. = 1372 Elapsed Time = 2.467752E+06 days
6943    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6945    Time Step No. = 1373 Elapsed Time = 2.469752E+06 days
6946    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6948    Time Step No. = 1374 Elapsed Time = 2.471752E+06 days
6949    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6951    Time Step No. = 1375 Elapsed Time = 2.473752E+06 days
6952    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6954    Time Step No. = 1376 Elapsed Time = 2.475752E+06 days
6955    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.33 ( 2.33 sec) Binary
6957    Time Step No. = 1377 Elapsed Time = 2.477752E+06 days
6958    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6960    Time Step No. = 1378 Elapsed Time = 2.479752E+06 days
6961    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6963    Time Step No. = 1379 Elapsed Time = 2.481752E+06 days
6964    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6966    Time Step No. = 1380 Elapsed Time = 2.483752E+06 days
6967    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6969    Time Step No. = 1381 Elapsed Time = 2.485752E+06 days
6970    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6972    Time Step No. = 1382 Elapsed Time = 2.487752E+06 days
6973    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
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6975    Time Step No. = 1383 Elapsed Time = 2.489752E+06 days
6976    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.34 ( 2.34 sec) Binary
6978    Time Step No. = 1384 Elapsed Time = 2.491752E+06 days
6979    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6981    Time Step No. = 1385 Elapsed Time = 2.493752E+06 days
6982    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6984    Time Step No. = 1386 Elapsed Time = 2.495752E+06 days
6985    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6987    Time Step No. = 1387 Elapsed Time = 2.497752E+06 days
6988    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6990    Time Step No. = 1388 Elapsed Time = 2.499752E+06 days
6991    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.35 ( 2.35 sec) Binary
6993    Time Step No. = 1389 Elapsed Time = 2.501752E+06 days
6994    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
6996    Time Step No. = 1390 Elapsed Time = 2.503752E+06 days
6997    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
6999    Time Step No. = 1391 Elapsed Time = 2.505752E+06 days
7000    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7002    Time Step No. = 1392 Elapsed Time = 2.507752E+06 days
7003    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7005    Time Step No. = 1393 Elapsed Time = 2.509752E+06 days
7006    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7008    Time Step No. = 1394 Elapsed Time = 2.511752E+06 days
7009    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7011    Time Step No. = 1395 Elapsed Time = 2.513752E+06 days
7012    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7014    Time Step No. = 1396 Elapsed Time = 2.515752E+06 days
7015    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7017    Time Step No. = 1397 Elapsed Time = 2.517752E+06 days
7018    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7020    Time Step No. = 1398 Elapsed Time = 2.519752E+06 days
7021    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7023    Time Step No. = 1399 Elapsed Time = 2.521752E+06 days
7024    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7026    Time Step No. = 1400 Elapsed Time = 2.523752E+06 days
7027    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7029    Time Step No. = 1401 Elapsed Time = 2.525752E+06 days
7030    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.36 ( 2.36 sec) Binary
7032    Time Step No. = 1402 Elapsed Time = 2.527752E+06 days
7033    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7035    Time Step No. = 1403 Elapsed Time = 2.529752E+06 days
7036    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7038    Time Step No. = 1404 Elapsed Time = 2.531752E+06 days
7039    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7041    Time Step No. = 1405 Elapsed Time = 2.533752E+06 days
7042    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7044    Time Step No. = 1406 Elapsed Time = 2.535752E+06 days
7045    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7047    Time Step No. = 1407 Elapsed Time = 2.537752E+06 days
7048    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.37 ( 2.37 sec) Binary
7050    Time Step No. = 1408 Elapsed Time = 2.539752E+06 days
7051    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7053    Time Step No. = 1409 Elapsed Time = 2.541752E+06 days
7054    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7056    Time Step No. = 1410 Elapsed Time = 2.543752E+06 days
7057    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7059    Time Step No. = 1411 Elapsed Time = 2.545752E+06 days
7060    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7062    Time Step No. = 1412 Elapsed Time = 2.547752E+06 days
7063    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.38 ( 2.38 sec) Binary
7065    Time Step No. = 1413 Elapsed Time = 2.549752E+06 days
7066    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7068    Time Step No. = 1414 Elapsed Time = 2.551752E+06 days
7069    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7071    Time Step No. = 1415 Elapsed Time = 2.553752E+06 days
7072    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7074    Time Step No. = 1416 Elapsed Time = 2.555752E+06 days
7075    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7077    Time Step No. = 1417 Elapsed Time = 2.557752E+06 days
7078    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7080    Time Step No. = 1418 Elapsed Time = 2.559752E+06 days
7081    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7083    Time Step No. = 1419 Elapsed Time = 2.561752E+06 days
7084    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.39 ( 2.39 sec) Binary
7086    Time Step No. = 1420 Elapsed Time = 2.563752E+06 days
7087    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
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7089 Time Step No. = 1421 Elapsed Time = 2.565752E+06 days
7090 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7092 Time Step No. = 1422 Elapsed Time = 2.567752E+06 days
7093 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7095 Time Step No. = 1423 Elapsed Time = 2.569752E+06 days
7096 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.40 ( 2.40 sec) Binary
7098 Time Step No. = 1424 Elapsed Time = 2.571752E+06 days
7099 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7101 Time Step No. = 1425 Elapsed Time = 2.573752E+06 days
7102 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7104 Time Step No. = 1426 Elapsed Time = 2.575752E+06 days
7105 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7107 Time Step No. = 1427 Elapsed Time = 2.577752E+06 days
7108 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7110 Time Step No. = 1428 Elapsed Time = 2.579752E+06 days
7111 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7113 Time Step No. = 1429 Elapsed Time = 2.581752E+06 days
7114 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7116 Time Step No. = 1430 Elapsed Time = 2.583752E+06 days
7117 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7119 Time Step No. = 1431 Elapsed Time = 2.585752E+06 days
7120 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7122 Time Step No. = 1432 Elapsed Time = 2.587752E+06 days
7123 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7125 Time Step No. = 1433 Elapsed Time = 2.589752E+06 days
7126 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7128 Time Step No. = 1434 Elapsed Time = 2.591752E+06 days
7129 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7131 Time Step No. = 1435 Elapsed Time = 2.593752E+06 days
7132 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.41 ( 2.41 sec) Binary
7134 Time Step No. = 1436 Elapsed Time = 2.595752E+06 days
7135 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7137 Time Step No. = 1437 Elapsed Time = 2.597752E+06 days
7138 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7140 Time Step No. = 1438 Elapsed Time = 2.599752E+06 days
7141 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7143 Time Step No. = 1439 Elapsed Time = 2.601752E+06 days
7144 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7146 Time Step No. = 1440 Elapsed Time = 2.603752E+06 days
7147 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.42 ( 2.42 sec) Binary
7149 Time Step No. = 1441 Elapsed Time = 2.605752E+06 days
7150 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7152 Time Step No. = 1442 Elapsed Time = 2.607752E+06 days
7153 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7155 Time Step No. = 1443 Elapsed Time = 2.609752E+06 days
7156 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7158 Time Step No. = 1444 Elapsed Time = 2.611752E+06 days
7159 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7161 Time Step No. = 1445 Elapsed Time = 2.613752E+06 days
7162 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7164 Time Step No. = 1446 Elapsed Time = 2.615752E+06 days
7165 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7167 Time Step No. = 1447 Elapsed Time = 2.617752E+06 days
7168 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7170 Time Step No. = 1448 Elapsed Time = 2.619752E+06 days
7171 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.43 ( 2.43 sec) Binary
7173 Time Step No. = 1449 Elapsed Time = 2.621752E+06 days
7174 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7176 Time Step No. = 1450 Elapsed Time = 2.623752E+06 days
7177 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7179 Time Step No. = 1451 Elapsed Time = 2.625752E+06 days
7180 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7182 Time Step No. = 1452 Elapsed Time = 2.627752E+06 days
7183 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7185 Time Step No. = 1453 Elapsed Time = 2.629752E+06 days
7186 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.44 ( 2.44 sec) Binary
7188 Time Step No. = 1454 Elapsed Time = 2.631752E+06 days
7189 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7191 Time Step No. = 1455 Elapsed Time = 2.633752E+06 days
7192 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7194 Time Step No. = 1456 Elapsed Time = 2.635752E+06 days
7195 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7197 Time Step No. = 1457 Elapsed Time = 2.637752E+06 days
7198 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7200 Time Step No. = 1458 Elapsed Time = 2.639752E+06 days
7201 Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
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7203    Time Step No. = 1459 Elapsed Time = 2.641752E+06 days
7204    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.45 ( 2.45 sec) Binary
7206    Time Step No. = 1460 Elapsed Time = 2.643752E+06 days
7207    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7209    Time Step No. = 1461 Elapsed Time = 2.645752E+06 days
7210    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7212    Time Step No. = 1462 Elapsed Time = 2.647752E+06 days
7213    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7215    Time Step No. = 1463 Elapsed Time = 2.649752E+06 days
7216    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7218    Time Step No. = 1464 Elapsed Time = 2.651752E+06 days
7219    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7221    Time Step No. = 1465 Elapsed Time = 2.653752E+06 days
7222    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
7224    Time Step No. = 1466 Elapsed Time = 2.655752E+06 days
7225    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7227    Time Step No. = 1467 Elapsed Time = 2.657752E+06 days
7228    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7230    Time Step No. = 1468 Elapsed Time = 2.659752E+06 days
7231    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7233    Time Step No. = 1469 Elapsed Time = 2.661752E+06 days
7234    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7236    Time Step No. = 1470 Elapsed Time = 2.663752E+06 days
7237    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7239    Time Step No. = 1471 Elapsed Time = 2.665752E+06 days
7240    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7242    Time Step No. = 1472 Elapsed Time = 2.667752E+06 days
7243    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7245    Time Step No. = 1473 Elapsed Time = 2.669752E+06 days
7246    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7248    Time Step No. = 1474 Elapsed Time = 2.671752E+06 days
7249    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7251    Time Step No. = 1475 Elapsed Time = 2.673752E+06 days
7252    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7254    Time Step No. = 1476 Elapsed Time = 2.675752E+06 days
7255    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7257    Time Step No. = 1477 Elapsed Time = 2.677752E+06 days
7258    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7260    Time Step No. = 1478 Elapsed Time = 2.679752E+06 days
7261    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7263    Time Step No. = 1479 Elapsed Time = 2.681752E+06 days
7264    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7266    Time Step No. = 1480 Elapsed Time = 2.683752E+06 days
7267    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7269    Time Step No. = 1481 Elapsed Time = 2.685752E+06 days
7270    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7272    Time Step No. = 1482 Elapsed Time = 2.687752E+06 days
7273    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7275    Time Step No. = 1483 Elapsed Time = 2.689752E+06 days
7276    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7278    Time Step No. = 1484 Elapsed Time = 2.691752E+06 days
7279    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7281    Time Step No. = 1485 Elapsed Time = 2.693752E+06 days
7282    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7284    Time Step No. = 1486 Elapsed Time = 2.695752E+06 days
7285    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7287    Time Step No. = 1487 Elapsed Time = 2.697752E+06 days
7288    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7290    Time Step No. = 1488 Elapsed Time = 2.699752E+06 days
7291    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7293    Time Step No. = 1489 Elapsed Time = 2.701752E+06 days
7294    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7296    Time Step No. = 1490 Elapsed Time = 2.703752E+06 days
7297    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7299    Time Step No. = 1491 Elapsed Time = 2.705752E+06 days
7300    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7302    Time Step No. = 1492 Elapsed Time = 2.707752E+06 days
7303    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7305    Time Step No. = 1493 Elapsed Time = 2.709752E+06 days
7306    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7308    Time Step No. = 1494 Elapsed Time = 2.711752E+06 days
7309    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7311    Time Step No. = 1495 Elapsed Time = 2.713752E+06 days
7312    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7314    Time Step No. = 1496 Elapsed Time = 2.715752E+06 days
7315    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
```

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7317    Time Step No. = 1497 Elapsed Time = 2.717752E+06 days
7318    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7320    Time Step No. = 1498 Elapsed Time = 2.719752E+06 days
7321    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7323    Time Step No. = 1499 Elapsed Time = 2.721752E+06 days
7324    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7326    Time Step No. = 1500 Elapsed Time = 2.723752E+06 days
7327    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7329    Time Step No. = 1501 Elapsed Time = 2.725752E+06 days
7330    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7332    Time Step No. = 1502 Elapsed Time = 2.727752E+06 days
7333    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7335    Time Step No. = 1503 Elapsed Time = 2.729752E+06 days
7336    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7338    Time Step No. = 1504 Elapsed Time = 2.731752E+06 days
7339    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7341    Time Step No. = 1505 Elapsed Time = 2.733752E+06 days
7342    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7344    Time Step No. = 1506 Elapsed Time = 2.735752E+06 days
7345    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7347    Time Step No. = 1507 Elapsed Time = 2.737752E+06 days
7348    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7350    Time Step No. = 1508 Elapsed Time = 2.739752E+06 days
7351    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7353    Time Step No. = 1509 Elapsed Time = 2.741752E+06 days
7354    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7356    Time Step No. = 1510 Elapsed Time = 2.743752E+06 days
7357    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7359    Time Step No. = 1511 Elapsed Time = 2.745752E+06 days
7360    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7362    Time Step No. = 1512 Elapsed Time = 2.747752E+06 days
7363    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7365    Time Step No. = 1513 Elapsed Time = 2.749752E+06 days
7366    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7368    Time Step No. = 1514 Elapsed Time = 2.751752E+06 days
7369    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7371    Time Step No. = 1515 Elapsed Time = 2.753752E+06 days
7372    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7374    Time Step No. = 1516 Elapsed Time = 2.755752E+06 days
7375    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7377    Time Step No. = 1517 Elapsed Time = 2.757752E+06 days
7378    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7380    Time Step No. = 1518 Elapsed Time = 2.759752E+06 days
7381    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7383    Time Step No. = 1519 Elapsed Time = 2.761752E+06 days
7384    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7386    Time Step No. = 1520 Elapsed Time = 2.763752E+06 days
7387    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7389    Time Step No. = 1521 Elapsed Time = 2.765752E+06 days
7390    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7392    Time Step No. = 1522 Elapsed Time = 2.767752E+06 days
7393    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7395    Time Step No. = 1523 Elapsed Time = 2.769752E+06 days
7396    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7398    Time Step No. = 1524 Elapsed Time = 2.771752E+06 days
7399    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7401    Time Step No. = 1525 Elapsed Time = 2.773752E+06 days
7402    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7404    Time Step No. = 1526 Elapsed Time = 2.775752E+06 days
7405    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7407    Time Step No. = 1527 Elapsed Time = 2.777752E+06 days
7408    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7410    Time Step No. = 1528 Elapsed Time = 2.779752E+06 days
7411    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7413    Time Step No. = 1529 Elapsed Time = 2.781752E+06 days
7414    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7416    Time Step No. = 1530 Elapsed Time = 2.783752E+06 days
7417    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7419    Time Step No. = 1531 Elapsed Time = 2.785752E+06 days
7420    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7422    Time Step No. = 1532 Elapsed Time = 2.787752E+06 days
7423    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7425    Time Step No. = 1533 Elapsed Time = 2.789752E+06 days
7426    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
7428    Time Step No. = 1534 Elapsed Time = 2.791752E+06 days
7429    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
```

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Time Step No. = 1535 Elapsed Time = 2.793752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1536 Elapsed Time = 2.795752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1537 Elapsed Time = 2.797752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1538 Elapsed Time = 2.799752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1539 Elapsed Time = 2.801752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1540 Elapsed Time = 2.803752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1541 Elapsed Time = 2.805752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
Time Step No. = 1542 Elapsed Time = 2.807752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
Time Step No. = 1543 Elapsed Time = 2.809752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
Time Step No. = 1544 Elapsed Time = 2.811752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
Time Step No. = 1545 Elapsed Time = 2.813752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
Time Step No. = 1546 Elapsed Time = 2.815752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
Time Step No. = 1547 Elapsed Time = 2.817752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1548 Elapsed Time = 2.819752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1549 Elapsed Time = 2.821752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1550 Elapsed Time = 2.823752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1551 Elapsed Time = 2.825752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1552 Elapsed Time = 2.827752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
Time Step No. = 1553 Elapsed Time = 2.829752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1554 Elapsed Time = 2.831752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1555 Elapsed Time = 2.833752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1556 Elapsed Time = 2.835752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1557 Elapsed Time = 2.837752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1558 Elapsed Time = 2.839752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
Time Step No. = 1559 Elapsed Time = 2.841752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
Time Step No. = 1560 Elapsed Time = 2.843752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
Time Step No. = 1561 Elapsed Time = 2.845752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
Time Step No. = 1562 Elapsed Time = 2.847752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
Time Step No. = 1563 Elapsed Time = 2.849752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1564 Elapsed Time = 2.851752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1565 Elapsed Time = 2.853752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1566 Elapsed Time = 2.855752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1567 Elapsed Time = 2.857752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1568 Elapsed Time = 2.859752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1569 Elapsed Time = 2.861752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1570 Elapsed Time = 2.863752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1571 Elapsed Time = 2.865752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
Time Step No. = 1572 Elapsed Time = 2.867752E+06 days
Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
```

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 7545     Time Step No. = 1573 Elapsed Time = 2.869752E+06 days
 7546     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
 7548     Time Step No. = 1574 Elapsed Time = 2.871752E+06 days
 7549     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7551     Time Step No. = 1575 Elapsed Time = 2.873752E+06 days
 7552     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7554     Time Step No. = 1576 Elapsed Time = 2.875752E+06 days
 7555     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7557     Time Step No. = 1577 Elapsed Time = 2.877752E+06 days
 7558     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7560     Time Step No. = 1578 Elapsed Time = 2.879752E+06 days
 7561     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7563     Time Step No. = 1579 Elapsed Time = 2.881752E+06 days
 7564     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 7566     Time Step No. = 1580 Elapsed Time = 2.883752E+06 days
 7567     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7569     Time Step No. = 1581 Elapsed Time = 2.885752E+06 days
 7570     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7572     Time Step No. = 1582 Elapsed Time = 2.887752E+06 days
 7573     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7575     Time Step No. = 1583 Elapsed Time = 2.889752E+06 days
 7576     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7578     Time Step No. = 1584 Elapsed Time = 2.891752E+06 days
 7579     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7581     Time Step No. = 1585 Elapsed Time = 2.893752E+06 days
 7582     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 7584     Time Step No. = 1586 Elapsed Time = 2.895752E+06 days
 7585     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7587     Time Step No. = 1587 Elapsed Time = 2.897752E+06 days
 7588     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7590     Time Step No. = 1588 Elapsed Time = 2.899752E+06 days
 7591     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7593     Time Step No. = 1589 Elapsed Time = 2.901752E+06 days
 7594     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7596     Time Step No. = 1590 Elapsed Time = 2.903752E+06 days
 7597     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7599     Time Step No. = 1591 Elapsed Time = 2.905752E+06 days
 7600     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 7602     Time Step No. = 1592 Elapsed Time = 2.907752E+06 days
 7603     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7605     Time Step No. = 1593 Elapsed Time = 2.909752E+06 days
 7606     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7608     Time Step No. = 1594 Elapsed Time = 2.911752E+06 days
 7609     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7611     Time Step No. = 1595 Elapsed Time = 2.913752E+06 days
 7612     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7614     Time Step No. = 1596 Elapsed Time = 2.915752E+06 days
 7615     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7617     Time Step No. = 1597 Elapsed Time = 2.917752E+06 days
 7618     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 7620     Time Step No. = 1598 Elapsed Time = 2.919752E+06 days
 7621     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7623     Time Step No. = 1599 Elapsed Time = 2.921752E+06 days
 7624     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 7627    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 7636     CPU Time (total for run) = 2.46 sec = 0.00068 hr
 7637    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 7636     CPU Time (total for run) = 2.66 sec = 0.00074 hr
 7637    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 7832     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) ASCII
 7834     Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
 7835     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
 7837     Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
 7838     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
 7840     Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
 7841     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
 7843     Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
 7844     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.46 ( 2.46 sec) Binary
```

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7846    Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
7847    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7849    Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
7850    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7852    Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
7853    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7855    Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
7856    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7858    Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
7859    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.47 ( 2.47 sec) Binary
7861    Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
7862    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7864    Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
7865    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7867    Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
7868    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7870    Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
7871    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7873    Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
7874    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.48 ( 2.48 sec) Binary
7876    Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
7877    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7879    Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
7880    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7882    Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
7883    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7885    Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
7886    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.49 ( 2.49 sec) Binary
7888    Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
7889    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7891    Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
7892    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7894    Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
7895    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7897    Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
7898    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7900    Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
7901    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7903    Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
7904    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7906    Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
7907    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7909    Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
7910    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7912    Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
7913    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7915    Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
7916    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.50 ( 2.50 sec) Binary
7918    Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
7919    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7921    Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
7922    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7924    Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
7925    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7927    Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
7928    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7930    Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
7931    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.51 ( 2.51 sec) Binary
7933    Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
7934    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7936    Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
7937    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7939    Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
7940    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7942    Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
7943    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7945    Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
7946    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.52 ( 2.52 sec) Binary
7948    Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
7949    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7951    Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
7952    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7954    Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
7955    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7957    Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
7958    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
```

```
7960    Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
7961    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.53 ( 2.53 sec) Binary
7963    Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
7964    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7966    Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
7967    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7969    Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
7970    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
7973    *******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
7832    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) ASCII
7834    Time Step No. = 1600 Elapsed Time = 2.921991E+06 days
7835    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7837    Time Step No. = 1601 Elapsed Time = 2.923991E+06 days
7838    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7840    Time Step No. = 1602 Elapsed Time = 2.925991E+06 days
7841    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7843    Time Step No. = 1603 Elapsed Time = 2.927991E+06 days
7844    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7846    Time Step No. = 1604 Elapsed Time = 2.929991E+06 days
7847    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7849    Time Step No. = 1605 Elapsed Time = 2.931991E+06 days
7850    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7852    Time Step No. = 1606 Elapsed Time = 2.933991E+06 days
7853    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7855    Time Step No. = 1607 Elapsed Time = 2.935991E+06 days
7856    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7858    Time Step No. = 1608 Elapsed Time = 2.937991E+06 days
7859    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7861    Time Step No. = 1609 Elapsed Time = 2.939991E+06 days
7862    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7864    Time Step No. = 1610 Elapsed Time = 2.941991E+06 days
7865    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
7867    Time Step No. = 1611 Elapsed Time = 2.943991E+06 days
7868    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7870    Time Step No. = 1612 Elapsed Time = 2.945991E+06 days
7871    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7873    Time Step No. = 1613 Elapsed Time = 2.947991E+06 days
7874    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7876    Time Step No. = 1614 Elapsed Time = 2.949991E+06 days
7877    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7879    Time Step No. = 1615 Elapsed Time = 2.951991E+06 days
7880    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
7882    Time Step No. = 1616 Elapsed Time = 2.953991E+06 days
7883    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7885    Time Step No. = 1617 Elapsed Time = 2.955991E+06 days
7886    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7888    Time Step No. = 1618 Elapsed Time = 2.957991E+06 days
7889    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7891    Time Step No. = 1619 Elapsed Time = 2.959991E+06 days
7892    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7894    Time Step No. = 1620 Elapsed Time = 2.961991E+06 days
7895    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7897    Time Step No. = 1621 Elapsed Time = 2.963991E+06 days
7898    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
7900    Time Step No. = 1622 Elapsed Time = 2.965991E+06 days
7901    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7903    Time Step No. = 1623 Elapsed Time = 2.967991E+06 days
7904    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7906    Time Step No. = 1624 Elapsed Time = 2.969991E+06 days
7907    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
7909    Time Step No. = 1625 Elapsed Time = 2.971991E+06 days
7910    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7912    Time Step No. = 1626 Elapsed Time = 2.973991E+06 days
7913    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7915    Time Step No. = 1627 Elapsed Time = 2.975991E+06 days
7916    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7918    Time Step No. = 1628 Elapsed Time = 2.977991E+06 days
7919    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7921    Time Step No. = 1629 Elapsed Time = 2.979991E+06 days
7922    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
7924    Time Step No. = 1630 Elapsed Time = 2.981991E+06 days
7925    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
7927    Time Step No. = 1631 Elapsed Time = 2.983991E+06 days
7928    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
```

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 7930    Time Step No. = 1632 Elapsed Time = 2.985991E+06 days
 7931    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7933    Time Step No. = 1633 Elapsed Time = 2.987991E+06 days
 7934    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7936    Time Step No. = 1634 Elapsed Time = 2.989991E+06 days
 7937    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7939    Time Step No. = 1635 Elapsed Time = 2.991991E+06 days
 7940    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
 7942    Time Step No. = 1636 Elapsed Time = 2.993991E+06 days
 7943    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7945    Time Step No. = 1637 Elapsed Time = 2.995991E+06 days
 7946    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7948    Time Step No. = 1638 Elapsed Time = 2.997991E+06 days
 7949    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7951    Time Step No. = 1639 Elapsed Time = 2.999991E+06 days
 7952    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7954    Time Step No. = 1640 Elapsed Time = 3.001991E+06 days
 7955    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
 7957    Time Step No. = 1641 Elapsed Time = 3.003991E+06 days
 7958    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7960    Time Step No. = 1642 Elapsed Time = 3.005991E+06 days
 7961    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7963    Time Step No. = 1643 Elapsed Time = 3.007991E+06 days
 7964    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7966    Time Step No. = 1644 Elapsed Time = 3.009991E+06 days
 7967    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7969    Time Step No. = 1645 Elapsed Time = 3.011991E+06 days
 7970    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
 7973   ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 7982    CPU Time (total for run) = 2.54 sec = 0.00071 hr
 7983   ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 7982    CPU Time (total for run) = 2.73 sec = 0.00076 hr
 7983   ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 8178    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) ASCII
 8180    Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
 8181    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.54 ( 2.54 sec) Binary
 8183    Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
 8184    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
 8186    Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
 8187    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
 8189    Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
 8190    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
 8192    Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
 8193    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
 8195    Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
 8196    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.55 ( 2.55 sec) Binary
 8198    Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
 8199    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
 8201    Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
 8202    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
 8204    Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
 8205    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
 8207    Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
 8208    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.56 ( 2.56 sec) Binary
 8210    Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
 8211    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
 8213    Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
 8214    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
 8216    Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
 8217    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
 8219    Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
 8220    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
 8222    Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
 8223    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.57 ( 2.57 sec) Binary
 8225    Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
 8226    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
 8228    Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
 8229    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
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8231     Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
8234     Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
8237     Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
8240     Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.58 ( 2.58 sec) Binary
8243     Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
8246     Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
8249     Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
8252     Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
8255     Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.59 ( 2.59 sec) Binary
8258     Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8261     Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8264     Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8267     Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8270     Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8273     Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8276     Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8279     Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8282     Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8285     Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8288     Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8291     Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
8292     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8294     Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8297     Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8300     Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8303     Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.60 ( 2.60 sec) Binary
8306     Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
8309     Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
8312     Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
8315     Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
8316     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.61 ( 2.61 sec) Binary
8319    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8178     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) ASCII
8180     Time Step No. = 1646 Elapsed Time = 3.013310E+06 days
8181     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8183     Time Step No. = 1647 Elapsed Time = 3.015310E+06 days
8184     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8186     Time Step No. = 1648 Elapsed Time = 3.017310E+06 days
8187     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.74 ( 2.74 sec) Binary
8189     Time Step No. = 1649 Elapsed Time = 3.019310E+06 days
8190     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8192     Time Step No. = 1650 Elapsed Time = 3.021310E+06 days
8193     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8195     Time Step No. = 1651 Elapsed Time = 3.023310E+06 days
8196     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8198     Time Step No. = 1652 Elapsed Time = 3.025310E+06 days
8199     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
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8201    Time Step No. = 1653 Elapsed Time = 3.027310E+06 days
8202    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.75 ( 2.75 sec) Binary
8204    Time Step No. = 1654 Elapsed Time = 3.029310E+06 days
8205    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8207    Time Step No. = 1655 Elapsed Time = 3.031310E+06 days
8208    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8210    Time Step No. = 1656 Elapsed Time = 3.033310E+06 days
8211    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8213    Time Step No. = 1657 Elapsed Time = 3.035310E+06 days
8214    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8216    Time Step No. = 1658 Elapsed Time = 3.037310E+06 days
8217    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8219    Time Step No. = 1659 Elapsed Time = 3.039310E+06 days
8220    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8222    Time Step No. = 1660 Elapsed Time = 3.041310E+06 days
8223    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8225    Time Step No. = 1661 Elapsed Time = 3.043310E+06 days
8226    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8228    Time Step No. = 1662 Elapsed Time = 3.045310E+06 days
8229    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8231    Time Step No. = 1663 Elapsed Time = 3.047310E+06 days
8232    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8234    Time Step No. = 1664 Elapsed Time = 3.049310E+06 days
8235    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8237    Time Step No. = 1665 Elapsed Time = 3.051310E+06 days
8238    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8240    Time Step No. = 1666 Elapsed Time = 3.053310E+06 days
8241    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8243    Time Step No. = 1667 Elapsed Time = 3.055310E+06 days
8244    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8246    Time Step No. = 1668 Elapsed Time = 3.057310E+06 days
8247    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8249    Time Step No. = 1669 Elapsed Time = 3.059310E+06 days
8250    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8252    Time Step No. = 1670 Elapsed Time = 3.061310E+06 days
8253    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8255    Time Step No. = 1671 Elapsed Time = 3.063310E+06 days
8256    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8258    Time Step No. = 1672 Elapsed Time = 3.065310E+06 days
8259    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8261    Time Step No. = 1673 Elapsed Time = 3.067310E+06 days
8262    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8264    Time Step No. = 1674 Elapsed Time = 3.069310E+06 days
8265    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8267    Time Step No. = 1675 Elapsed Time = 3.071310E+06 days
8268    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8270    Time Step No. = 1676 Elapsed Time = 3.073310E+06 days
8271    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8273    Time Step No. = 1677 Elapsed Time = 3.075310E+06 days
8274    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8276    Time Step No. = 1678 Elapsed Time = 3.077310E+06 days
8277    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8279    Time Step No. = 1679 Elapsed Time = 3.079310E+06 days
8280    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8282    Time Step No. = 1680 Elapsed Time = 3.081310E+06 days
8283    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8285    Time Step No. = 1681 Elapsed Time = 3.083310E+06 days
8286    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8288    Time Step No. = 1682 Elapsed Time = 3.085310E+06 days
8289    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8291    Time Step No. = 1683 Elapsed Time = 3.087310E+06 days
8292    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
8294    Time Step No. = 1684 Elapsed Time = 3.089310E+06 days
8295    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8297    Time Step No. = 1685 Elapsed Time = 3.091310E+06 days
8298    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8300    Time Step No. = 1686 Elapsed Time = 3.093310E+06 days
8301    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8303    Time Step No. = 1687 Elapsed Time = 3.095310E+06 days
8304    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8306    Time Step No. = 1688 Elapsed Time = 3.097310E+06 days
8307    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8309    Time Step No. = 1689 Elapsed Time = 3.099310E+06 days
8310    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
8312    Time Step No. = 1690 Elapsed Time = 3.101310E+06 days
8313    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
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 8315    Time Step No. = 1691 Elapsed Time = 3.103310E+06 days
 8316    Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 8319   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 8328    CPU Time (total for run) = 2.61 sec = 0.00072 hr
 8329   ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 8328    CPU Time (total for run) = 2.83 sec = 0.00079 hr
 8329   ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 8524    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) ASCII
 8526    Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
 8527    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 8529    Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
 8530    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 8532    Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
 8533    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 8535    Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
 8536    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.62 ( 2.62 sec) Binary
 8538    Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
 8539    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8541    Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
 8542    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8544    Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
 8545    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8547    Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
 8548    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8550    Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
 8551    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8553    Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
 8554    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.63 ( 2.63 sec) Binary
 8556    Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
 8557    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8559    Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
 8560    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8562    Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
 8563    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8565    Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
 8566    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8568    Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
 8569    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8571    Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
 8572    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8574    Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
 8575    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8577    Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
 8578    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8580    Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
 8581    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8583    Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
 8584    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.64 ( 2.64 sec) Binary
 8586    Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
 8587    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 8589    Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
 8590    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 8592    Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
 8593    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 8595    Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
 8596    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 8598    Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
 8599    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.65 ( 2.65 sec) Binary
 8601    Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
 8602    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 8604    Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
 8605    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 8607    Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
 8608    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 8610    Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
 8611    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
 8613    Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
 8614    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.66 ( 2.66 sec) Binary
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8616     Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8619     Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8622     Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8625     Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8628     Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8631     Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.67 ( 2.67 sec) Binary
8634     Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8637     Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8640     Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8643     Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8646     Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8649     Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.68 ( 2.68 sec) Binary
8652     Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
8655     Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
8658     Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
8661     Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.69 ( 2.69 sec) Binary
8665    ********************************************************************************
******
File FAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8524     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) ASCII
8526     Time Step No. = 1692 Elapsed Time = 3.104630E+06 days
8527     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
8529     Time Step No. = 1693 Elapsed Time = 3.106630E+06 days
8530     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8532     Time Step No. = 1694 Elapsed Time = 3.108630E+06 days
8533     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8535     Time Step No. = 1695 Elapsed Time = 3.110630E+06 days
8536     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8538     Time Step No. = 1696 Elapsed Time = 3.112630E+06 days
8539     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8541     Time Step No. = 1697 Elapsed Time = 3.114630E+06 days
8542     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
8544     Time Step No. = 1698 Elapsed Time = 3.116630E+06 days
8545     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8547     Time Step No. = 1699 Elapsed Time = 3.118630E+06 days
8548     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8550     Time Step No. = 1700 Elapsed Time = 3.120630E+06 days
8551     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8553     Time Step No. = 1701 Elapsed Time = 3.122630E+06 days
8554     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8556     Time Step No. = 1702 Elapsed Time = 3.124630E+06 days
8557     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8559     Time Step No. = 1703 Elapsed Time = 3.126630E+06 days
8560     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
8562     Time Step No. = 1704 Elapsed Time = 3.128630E+06 days
8563     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8565     Time Step No. = 1705 Elapsed Time = 3.130630E+06 days
8566     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8568     Time Step No. = 1706 Elapsed Time = 3.132630E+06 days
8569     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8571     Time Step No. = 1707 Elapsed Time = 3.134630E+06 days
8572     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8574     Time Step No. = 1708 Elapsed Time = 3.136630E+06 days
8575     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8577     Time Step No. = 1709 Elapsed Time = 3.138630E+06 days
8578     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8580     Time Step No. = 1710 Elapsed Time = 3.140630E+06 days
8581     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8583     Time Step No. = 1711 Elapsed Time = 3.142630E+06 days
8584     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
```

```
8586     Time Step No. = 1712 Elapsed Time = 3.144630E+06 days
8587     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8589     Time Step No. = 1713 Elapsed Time = 3.146630E+06 days
8590     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
8592     Time Step No. = 1714 Elapsed Time = 3.148630E+06 days
8593     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8595     Time Step No. = 1715 Elapsed Time = 3.150630E+06 days
8596     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8598     Time Step No. = 1716 Elapsed Time = 3.152630E+06 days
8599     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8601     Time Step No. = 1717 Elapsed Time = 3.154630E+06 days
8602     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
8604     Time Step No. = 1718 Elapsed Time = 3.156630E+06 days
8605     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8607     Time Step No. = 1719 Elapsed Time = 3.158630E+06 days
8608     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8610     Time Step No. = 1720 Elapsed Time = 3.160630E+06 days
8611     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8613     Time Step No. = 1721 Elapsed Time = 3.162630E+06 days
8614     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8616     Time Step No. = 1722 Elapsed Time = 3.164630E+06 days
8617     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8619     Time Step No. = 1723 Elapsed Time = 3.166630E+06 days
8620     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
8622     Time Step No. = 1724 Elapsed Time = 3.168630E+06 days
8623     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8625     Time Step No. = 1725 Elapsed Time = 3.170630E+06 days
8626     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8628     Time Step No. = 1726 Elapsed Time = 3.172630E+06 days
8629     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8631     Time Step No. = 1727 Elapsed Time = 3.174630E+06 days
8632     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8634     Time Step No. = 1728 Elapsed Time = 3.176630E+06 days
8635     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8637     Time Step No. = 1729 Elapsed Time = 3.178630E+06 days
8638     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
8640     Time Step No. = 1730 Elapsed Time = 3.180630E+06 days
8641     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8643     Time Step No. = 1731 Elapsed Time = 3.182630E+06 days
8644     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8646     Time Step No. = 1732 Elapsed Time = 3.184630E+06 days
8647     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8649     Time Step No. = 1733 Elapsed Time = 3.186630E+06 days
8650     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8652     Time Step No. = 1734 Elapsed Time = 3.188630E+06 days
8653     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8655     Time Step No. = 1735 Elapsed Time = 3.190630E+06 days
8656     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8658     Time Step No. = 1736 Elapsed Time = 3.192630E+06 days
8659     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8661     Time Step No. = 1737 Elapsed Time = 3.194630E+06 days
8662     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
8665    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8674     CPU Time (total for run) = 2.69 sec = 0.00075 hr
8675    ****************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
8674     CPU Time (total for run) = 2.90 sec = 0.00081 hr
8675    ****************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
8870     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) ASCII
8872     Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
8873     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8875     Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
8876     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8878     Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
8879     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8881     Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
8882     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.70 ( 2.70 sec) Binary
8884     Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
8885     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
```

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8887    Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
8888    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
8890    Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
8891    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
8893    Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
8894    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
8896    Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
8897    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.71 ( 2.71 sec) Binary
8899    Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
8900    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8902    Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
8903    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8905    Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
8906    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8908    Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
8909    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8911    Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
8912    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8914    Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
8915    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.72 ( 2.72 sec) Binary
8917    Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
8918    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
8920    Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
8921    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
8923    Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
8924    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
8926    Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
8927    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
8929    Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
8930    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.73 ( 2.73 sec) Binary
8932    Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
8933    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8935    Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
8936    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8938    Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
8939    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8941    Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
8942    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.76 ( 2.76 sec) Binary
8944    Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
8945    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8947    Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
8948    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8950    Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
8951    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8953    Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
8954    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8956    Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
8957    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.77 ( 2.77 sec) Binary
8959    Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
8960    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8962    Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
8963    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8965    Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
8966    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8968    Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
8969    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8971    Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
8972    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.78 ( 2.78 sec) Binary
8974    Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
8975    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8977    Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
8978    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8980    Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
8981    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8983    Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
8984    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8986    Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
8987    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.79 ( 2.79 sec) Binary
8989    Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
8990    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8992    Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
8993    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8995    Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
8996    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
8998    Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
8999    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
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 9001     Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
 9002     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
 9004     Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
 9005     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
 9007     Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
 9008     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
 9011    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 8870     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) ASCII
 8872     Time Step No. = 1738 Elapsed Time = 3.195949E+06 days
 8873     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8875     Time Step No. = 1739 Elapsed Time = 3.197949E+06 days
 8876     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8878     Time Step No. = 1740 Elapsed Time = 3.199949E+06 days
 8879     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8881     Time Step No. = 1741 Elapsed Time = 3.201949E+06 days
 8882     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8884     Time Step No. = 1742 Elapsed Time = 3.203949E+06 days
 8885     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
 8887     Time Step No. = 1743 Elapsed Time = 3.205949E+06 days
 8888     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8890     Time Step No. = 1744 Elapsed Time = 3.207949E+06 days
 8891     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8893     Time Step No. = 1745 Elapsed Time = 3.209949E+06 days
 8894     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8896     Time Step No. = 1746 Elapsed Time = 3.211949E+06 days
 8897     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8899     Time Step No. = 1747 Elapsed Time = 3.213949E+06 days
 8900     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
 8902     Time Step No. = 1748 Elapsed Time = 3.215949E+06 days
 8903     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8905     Time Step No. = 1749 Elapsed Time = 3.217949E+06 days
 8906     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8908     Time Step No. = 1750 Elapsed Time = 3.219949E+06 days
 8909     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8911     Time Step No. = 1751 Elapsed Time = 3.221949E+06 days
 8912     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8914     Time Step No. = 1752 Elapsed Time = 3.223949E+06 days
 8915     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8917     Time Step No. = 1753 Elapsed Time = 3.225949E+06 days
 8918     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
 8920     Time Step No. = 1754 Elapsed Time = 3.227949E+06 days
 8921     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8923     Time Step No. = 1755 Elapsed Time = 3.229949E+06 days
 8924     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8926     Time Step No. = 1756 Elapsed Time = 3.231949E+06 days
 8927     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8929     Time Step No. = 1757 Elapsed Time = 3.233949E+06 days
 8930     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8932     Time Step No. = 1758 Elapsed Time = 3.235949E+06 days
 8933     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
 8935     Time Step No. = 1759 Elapsed Time = 3.237949E+06 days
 8936     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8938     Time Step No. = 1760 Elapsed Time = 3.239949E+06 days
 8939     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8941     Time Step No. = 1761 Elapsed Time = 3.241949E+06 days
 8942     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8944     Time Step No. = 1762 Elapsed Time = 3.243949E+06 days
 8945     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8947     Time Step No. = 1763 Elapsed Time = 3.245949E+06 days
 8948     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
 8950     Time Step No. = 1764 Elapsed Time = 3.247949E+06 days
 8951     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8953     Time Step No. = 1765 Elapsed Time = 3.249949E+06 days
 8954     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8956     Time Step No. = 1766 Elapsed Time = 3.251949E+06 days
 8957     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8959     Time Step No. = 1767 Elapsed Time = 3.253949E+06 days
 8960     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8962     Time Step No. = 1768 Elapsed Time = 3.255949E+06 days
 8963     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8965     Time Step No. = 1769 Elapsed Time = 3.257949E+06 days
 8966     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
 8968     Time Step No. = 1770 Elapsed Time = 3.259949E+06 days
 8969     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
```

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 8971     Time Step No. = 1771 Elapsed Time = 3.261949E+06 days
 8972     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8974     Time Step No. = 1772 Elapsed Time = 3.263949E+06 days
 8975     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8977     Time Step No. = 1773 Elapsed Time = 3.265949E+06 days
 8978     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8980     Time Step No. = 1774 Elapsed Time = 3.267949E+06 days
 8981     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8983     Time Step No. = 1775 Elapsed Time = 3.269949E+06 days
 8984     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8986     Time Step No. = 1776 Elapsed Time = 3.271949E+06 days
 8987     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8989     Time Step No. = 1777 Elapsed Time = 3.273949E+06 days
 8990     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8992     Time Step No. = 1778 Elapsed Time = 3.275949E+06 days
 8993     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
 8995     Time Step No. = 1779 Elapsed Time = 3.277949E+06 days
 8996     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
 8998     Time Step No. = 1780 Elapsed Time = 3.279949E+06 days
 8999     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
 9001     Time Step No. = 1781 Elapsed Time = 3.281949E+06 days
 9002     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
 9004     Time Step No. = 1782 Elapsed Time = 3.283949E+06 days
 9005     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
 9007     Time Step No. = 1783 Elapsed Time = 3.285949E+06 days
 9008     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
 9011    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 9020     CPU Time (total for run) = 2.80 sec = 0.00078 hr
 9021    ******************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9020     CPU Time (total for run) = 2.98 sec = 0.00083 hr
 9021    ******************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 9216     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) ASCII
 9218     Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
 9219     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
 9221     Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
 9222     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.80 ( 2.80 sec) Binary
 9224     Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
 9225     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9227     Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
 9228     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9230     Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
 9231     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9233     Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
 9234     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9236     Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
 9237     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9239     Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
 9240     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.81 ( 2.81 sec) Binary
 9242     Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
 9243     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 9245     Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
 9246     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 9248     Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
 9249     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 9251     Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
 9252     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 9254     Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
 9255     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.82 ( 2.82 sec) Binary
 9257     Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
 9258     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 9260     Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
 9261     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 9263     Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
 9264     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 9266     Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
 9267     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.83 ( 2.83 sec) Binary
 9269     Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
 9270     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
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9272    Time Step No. = 1802 Elapsed Time = 3.323269E+06 days
9273    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9275    Time Step No. = 1803 Elapsed Time = 3.325269E+06 days
9276    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9278    Time Step No. = 1804 Elapsed Time = 3.327269E+06 days
9279    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9281    Time Step No. = 1805 Elapsed Time = 3.329269E+06 days
9282    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9284    Time Step No. = 1806 Elapsed Time = 3.331269E+06 days
9285    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9287    Time Step No. = 1807 Elapsed Time = 3.333269E+06 days
9288    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.84 ( 2.84 sec) Binary
9290    Time Step No. = 1808 Elapsed Time = 3.335269E+06 days
9291    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
9293    Time Step No. = 1809 Elapsed Time = 3.337269E+06 days
9294    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
9296    Time Step No. = 1810 Elapsed Time = 3.339269E+06 days
9297    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
9299    Time Step No. = 1811 Elapsed Time = 3.341269E+06 days
9300    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.85 ( 2.85 sec) Binary
9302    Time Step No. = 1812 Elapsed Time = 3.343269E+06 days
9303    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9305    Time Step No. = 1813 Elapsed Time = 3.345269E+06 days
9306    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9308    Time Step No. = 1814 Elapsed Time = 3.347269E+06 days
9309    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9311    Time Step No. = 1815 Elapsed Time = 3.349269E+06 days
9312    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9314    Time Step No. = 1816 Elapsed Time = 3.351269E+06 days
9315    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9317    Time Step No. = 1817 Elapsed Time = 3.353269E+06 days
9318    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9320    Time Step No. = 1818 Elapsed Time = 3.355269E+06 days
9321    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9323    Time Step No. = 1819 Elapsed Time = 3.357269E+06 days
9324    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9326    Time Step No. = 1820 Elapsed Time = 3.359269E+06 days
9327    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9329    Time Step No. = 1821 Elapsed Time = 3.361269E+06 days
9330    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9332    Time Step No. = 1822 Elapsed Time = 3.363269E+06 days
9333    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.86 ( 2.86 sec) Binary
9335    Time Step No. = 1823 Elapsed Time = 3.365269E+06 days
9336    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
9338    Time Step No. = 1824 Elapsed Time = 3.367269E+06 days
9339    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
9341    Time Step No. = 1825 Elapsed Time = 3.369269E+06 days
9342    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
9344    Time Step No. = 1826 Elapsed Time = 3.371269E+06 days
9345    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
9347    Time Step No. = 1827 Elapsed Time = 3.373269E+06 days
9348    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.87 ( 2.87 sec) Binary
9350    Time Step No. = 1828 Elapsed Time = 3.375269E+06 days
9351    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9353    Time Step No. = 1829 Elapsed Time = 3.377269E+06 days
9354    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9356    Time Step No. = 1830 Elapsed Time = 3.379269E+06 days
9357    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9359    Time Step No. = 1831 Elapsed Time = 3.381269E+06 days
9360    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9362    Time Step No. = 1832 Elapsed Time = 3.383269E+06 days
9363    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9365    Time Step No. = 1833 Elapsed Time = 3.385269E+06 days
9366    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.88 ( 2.88 sec) Binary
9368    Time Step No. = 1834 Elapsed Time = 3.387269E+06 days
9369    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
9371    Time Step No. = 1835 Elapsed Time = 3.389269E+06 days
9372    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
9374    Time Step No. = 1836 Elapsed Time = 3.391269E+06 days
9375    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
9377    Time Step No. = 1837 Elapsed Time = 3.393269E+06 days
9378    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
9380    Time Step No. = 1838 Elapsed Time = 3.395269E+06 days
9381    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.89 ( 2.89 sec) Binary
9383    Time Step No. = 1839 Elapsed Time = 3.397269E+06 days
9384    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
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9386    Time Step No. = 1840 Elapsed Time = 3.399269E+06 days
9387    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
9389    Time Step No. = 1841 Elapsed Time = 3.401269E+06 days
9390    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
9392    Time Step No. = 1842 Elapsed Time = 3.403269E+06 days
9393    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
9395    Time Step No. = 1843 Elapsed Time = 3.405269E+06 days
9396    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
9398    Time Step No. = 1844 Elapsed Time = 3.407269E+06 days
9399    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.90 ( 2.90 sec) Binary
9401    Time Step No. = 1845 Elapsed Time = 3.409269E+06 days
9402    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9404    Time Step No. = 1846 Elapsed Time = 3.411269E+06 days
9405    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9407    Time Step No. = 1847 Elapsed Time = 3.413269E+06 days
9408    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9410    Time Step No. = 1848 Elapsed Time = 3.415269E+06 days
9411    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9413    Time Step No. = 1849 Elapsed Time = 3.417269E+06 days
9414    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9416    Time Step No. = 1850 Elapsed Time = 3.419269E+06 days
9417    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9419    Time Step No. = 1851 Elapsed Time = 3.421269E+06 days
9420    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9422    Time Step No. = 1852 Elapsed Time = 3.423269E+06 days
9423    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9425    Time Step No. = 1853 Elapsed Time = 3.425269E+06 days
9426    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9428    Time Step No. = 1854 Elapsed Time = 3.427269E+06 days
9429    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.91 ( 2.91 sec) Binary
9431    Time Step No. = 1855 Elapsed Time = 3.429269E+06 days
9432    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
9434    Time Step No. = 1856 Elapsed Time = 3.431269E+06 days
9435    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
9437    Time Step No. = 1857 Elapsed Time = 3.433269E+06 days
9438    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
9440    Time Step No. = 1858 Elapsed Time = 3.435269E+06 days
9441    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
9443    Time Step No. = 1859 Elapsed Time = 3.437269E+06 days
9444    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.92 ( 2.92 sec) Binary
9446    Time Step No. = 1860 Elapsed Time = 3.439269E+06 days
9447    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
9449    Time Step No. = 1861 Elapsed Time = 3.441269E+06 days
9450    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
9452    Time Step No. = 1862 Elapsed Time = 3.443269E+06 days
9453    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
9455    Time Step No. = 1863 Elapsed Time = 3.445269E+06 days
9456    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.93 ( 2.93 sec) Binary
9458    Time Step No. = 1864 Elapsed Time = 3.447269E+06 days
9459    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
9461    Time Step No. = 1865 Elapsed Time = 3.449269E+06 days
9462    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
9464    Time Step No. = 1866 Elapsed Time = 3.451269E+06 days
9465    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
9467    Time Step No. = 1867 Elapsed Time = 3.453269E+06 days
9468    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
9470    Time Step No. = 1868 Elapsed Time = 3.455269E+06 days
9471    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.94 ( 2.94 sec) Binary
9473    Time Step No. = 1869 Elapsed Time = 3.457269E+06 days
9474    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
9476    Time Step No. = 1870 Elapsed Time = 3.459269E+06 days
9477    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
9479    Time Step No. = 1871 Elapsed Time = 3.461269E+06 days
9480    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
9482    Time Step No. = 1872 Elapsed Time = 3.463269E+06 days
9483    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
9485    Time Step No. = 1873 Elapsed Time = 3.465269E+06 days
9486    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.95 ( 2.95 sec) Binary
9488    Time Step No. = 1874 Elapsed Time = 3.467269E+06 days
9489    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
9491    Time Step No. = 1875 Elapsed Time = 3.469269E+06 days
9492    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
9494    Time Step No. = 1876 Elapsed Time = 3.471269E+06 days
9495    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
9497    Time Step No. = 1877 Elapsed Time = 3.473269E+06 days
9498    Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
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9500   Time Step No. = 1878 Elapsed Time = 3.475269E+06 days
9501   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.96 ( 2.96 sec) Binary
9503   Time Step No. = 1879 Elapsed Time = 3.477269E+06 days
9504   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
9506   Time Step No. = 1880 Elapsed Time = 3.479269E+06 days
9507   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
9509   Time Step No. = 1881 Elapsed Time = 3.481269E+06 days
9510   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
9512   Time Step No. = 1882 Elapsed Time = 3.483269E+06 days
9513   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
9515   Time Step No. = 1883 Elapsed Time = 3.485269E+06 days
9516   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.97 ( 2.97 sec) Binary
9518   Time Step No. = 1884 Elapsed Time = 3.487269E+06 days
9519   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9521   Time Step No. = 1885 Elapsed Time = 3.489269E+06 days
9522   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9524   Time Step No. = 1886 Elapsed Time = 3.491269E+06 days
9525   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9527   Time Step No. = 1887 Elapsed Time = 3.493269E+06 days
9528   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9530   Time Step No. = 1888 Elapsed Time = 3.495269E+06 days
9531   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9533   Time Step No. = 1889 Elapsed Time = 3.497269E+06 days
9534   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9536   Time Step No. = 1890 Elapsed Time = 3.499269E+06 days
9537   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.98 ( 2.98 sec) Binary
9539   Time Step No. = 1891 Elapsed Time = 3.501269E+06 days
9540   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9542   Time Step No. = 1892 Elapsed Time = 3.503269E+06 days
9543   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9545   Time Step No. = 1893 Elapsed Time = 3.505269E+06 days
9546   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9548   Time Step No. = 1894 Elapsed Time = 3.507269E+06 days
9549   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
9551   Time Step No. = 1895 Elapsed Time = 3.509269E+06 days
9552   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9554   Time Step No. = 1896 Elapsed Time = 3.511269E+06 days
9555   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9557   Time Step No. = 1897 Elapsed Time = 3.513269E+06 days
9558   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9560   Time Step No. = 1898 Elapsed Time = 3.515269E+06 days
9561   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9563   Time Step No. = 1899 Elapsed Time = 3.517269E+06 days
9564   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9566   Time Step No. = 1900 Elapsed Time = 3.519269E+06 days
9567   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
9569   Time Step No. = 1901 Elapsed Time = 3.521269E+06 days
9570   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9572   Time Step No. = 1902 Elapsed Time = 3.523269E+06 days
9573   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9575   Time Step No. = 1903 Elapsed Time = 3.525269E+06 days
9576   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9578   Time Step No. = 1904 Elapsed Time = 3.527269E+06 days
9579   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9581   Time Step No. = 1905 Elapsed Time = 3.529269E+06 days
9582   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
9584   Time Step No. = 1906 Elapsed Time = 3.531269E+06 days
9585   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9587   Time Step No. = 1907 Elapsed Time = 3.533269E+06 days
9588   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9590   Time Step No. = 1908 Elapsed Time = 3.535269E+06 days
9591   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9593   Time Step No. = 1909 Elapsed Time = 3.537269E+06 days
9594   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9596   Time Step No. = 1910 Elapsed Time = 3.539269E+06 days
9597   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
9599   Time Step No. = 1911 Elapsed Time = 3.541269E+06 days
9600   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9602   Time Step No. = 1912 Elapsed Time = 3.543269E+06 days
9603   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9605   Time Step No. = 1913 Elapsed Time = 3.545269E+06 days
9606   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9608   Time Step No. = 1914 Elapsed Time = 3.547269E+06 days
9609   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9611   Time Step No. = 1915 Elapsed Time = 3.549269E+06 days
9612   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
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9614   Time Step No. = 1916 Elapsed Time = 3.551269E+06 days
9615   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9617   Time Step No. = 1917 Elapsed Time = 3.553269E+06 days
9618   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9620   Time Step No. = 1918 Elapsed Time = 3.555269E+06 days
9621   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9623   Time Step No. = 1919 Elapsed Time = 3.557269E+06 days
9624   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9626   Time Step No. = 1920 Elapsed Time = 3.559269E+06 days
9627   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9629   Time Step No. = 1921 Elapsed Time = 3.561269E+06 days
9630   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9632   Time Step No. = 1922 Elapsed Time = 3.563269E+06 days
9633   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9635   Time Step No. = 1923 Elapsed Time = 3.565269E+06 days
9636   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9638   Time Step No. = 1924 Elapsed Time = 3.567269E+06 days
9639   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9641   Time Step No. = 1925 Elapsed Time = 3.569269E+06 days
9642   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9644   Time Step No. = 1926 Elapsed Time = 3.571269E+06 days
9645   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9647   Time Step No. = 1927 Elapsed Time = 3.573269E+06 days
9648   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9650   Time Step No. = 1928 Elapsed Time = 3.575269E+06 days
9651   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9653   Time Step No. = 1929 Elapsed Time = 3.577269E+06 days
9654   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9656   Time Step No. = 1930 Elapsed Time = 3.579269E+06 days
9657   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9659   Time Step No. = 1931 Elapsed Time = 3.581269E+06 days
9660   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9662   Time Step No. = 1932 Elapsed Time = 3.583269E+06 days
9663   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9665   Time Step No. = 1933 Elapsed Time = 3.585269E+06 days
9666   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9668   Time Step No. = 1934 Elapsed Time = 3.587269E+06 days
9669   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9671   Time Step No. = 1935 Elapsed Time = 3.589269E+06 days
9672   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9674   Time Step No. = 1936 Elapsed Time = 3.591269E+06 days
9675   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9677   Time Step No. = 1937 Elapsed Time = 3.593269E+06 days
9678   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9680   Time Step No. = 1938 Elapsed Time = 3.595269E+06 days
9681   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9683   Time Step No. = 1939 Elapsed Time = 3.597269E+06 days
9684   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9686   Time Step No. = 1940 Elapsed Time = 3.599269E+06 days
9687   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9689   Time Step No. = 1941 Elapsed Time = 3.601269E+06 days
9690   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9692   Time Step No. = 1942 Elapsed Time = 3.603269E+06 days
9693   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9695   Time Step No. = 1943 Elapsed Time = 3.605269E+06 days
9696   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9698   Time Step No. = 1944 Elapsed Time = 3.607269E+06 days
9699   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9701   Time Step No. = 1945 Elapsed Time = 3.609269E+06 days
9702   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9704   Time Step No. = 1946 Elapsed Time = 3.611269E+06 days
9705   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9707   Time Step No. = 1947 Elapsed Time = 3.613269E+06 days
9708   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9710   Time Step No. = 1948 Elapsed Time = 3.615269E+06 days
9711   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9713   Time Step No. = 1949 Elapsed Time = 3.617269E+06 days
9714   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9716   Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
9717   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9719   Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
9720   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9722   Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
9723   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9725   Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
9726   Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
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 9728     Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
 9729     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
 9731     Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
 9732     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
 9734     Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
 9735     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
 9737     Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
 9738     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
 9740     Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
 9741     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
 9743     Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
 9744     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
 9746     Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
 9747     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
 9749     Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
 9750     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
 9752     Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
 9753     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
 9755     Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
 9756     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
 9758     Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
 9759     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
 9761     Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
 9762     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
 9764     Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
 9765     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
 9768     ********************************************************************************
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File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9216     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) ASCII
 9218     Time Step No. = 1784 Elapsed Time = 3.287269E+06 days
 9219     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
 9221     Time Step No. = 1785 Elapsed Time = 3.289269E+06 days
 9222     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
 9224     Time Step No. = 1786 Elapsed Time = 3.291269E+06 days
 9225     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 2.99 ( 2.99 sec) Binary
 9227     Time Step No. = 1787 Elapsed Time = 3.293269E+06 days
 9228     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9230     Time Step No. = 1788 Elapsed Time = 3.295269E+06 days
 9231     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9233     Time Step No. = 1789 Elapsed Time = 3.297269E+06 days
 9234     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9236     Time Step No. = 1790 Elapsed Time = 3.299269E+06 days
 9237     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9239     Time Step No. = 1791 Elapsed Time = 3.301269E+06 days
 9240     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9242     Time Step No. = 1792 Elapsed Time = 3.303269E+06 days
 9243     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.00 ( 3.00 sec) Binary
 9245     Time Step No. = 1793 Elapsed Time = 3.305269E+06 days
 9246     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
 9248     Time Step No. = 1794 Elapsed Time = 3.307269E+06 days
 9249     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
 9251     Time Step No. = 1795 Elapsed Time = 3.309269E+06 days
 9252     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
 9254     Time Step No. = 1796 Elapsed Time = 3.311269E+06 days
 9255     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
 9257     Time Step No. = 1797 Elapsed Time = 3.313269E+06 days
 9258     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.01 ( 3.01 sec) Binary
 9260     Time Step No. = 1798 Elapsed Time = 3.315269E+06 days
 9261     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
 9263     Time Step No. = 1799 Elapsed Time = 3.317269E+06 days
 9264     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
 9266     Time Step No. = 1800 Elapsed Time = 3.319269E+06 days
 9267     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
 9269     Time Step No. = 1801 Elapsed Time = 3.321269E+06 days
 9270     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.02 ( 3.02 sec) Binary
 9272     Time Step No. = 1802 Elapsed Time = 3.323269E+06 days
 9273     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
 9275     Time Step No. = 1803 Elapsed Time = 3.325269E+06 days
 9276     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
 9278     Time Step No. = 1804 Elapsed Time = 3.327269E+06 days
 9279     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
 9281     Time Step No. = 1805 Elapsed Time = 3.329269E+06 days
 9282     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
 9284     Time Step No. = 1806 Elapsed Time = 3.331269E+06 days
 9285     Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
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9287   Time Step No. = 1807 Elapsed Time = 3.333269E+06 days
9288   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9290   Time Step No. = 1808 Elapsed Time = 3.335269E+06 days
9291   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.03 ( 3.03 sec) Binary
9293   Time Step No. = 1809 Elapsed Time = 3.337269E+06 days
9294   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9296   Time Step No. = 1810 Elapsed Time = 3.339269E+06 days
9297   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9299   Time Step No. = 1811 Elapsed Time = 3.341269E+06 days
9300   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9302   Time Step No. = 1812 Elapsed Time = 3.343269E+06 days
9303   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9305   Time Step No. = 1813 Elapsed Time = 3.345269E+06 days
9306   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.04 ( 3.04 sec) Binary
9308   Time Step No. = 1814 Elapsed Time = 3.347269E+06 days
9309   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9311   Time Step No. = 1815 Elapsed Time = 3.349269E+06 days
9312   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9314   Time Step No. = 1816 Elapsed Time = 3.351269E+06 days
9315   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9317   Time Step No. = 1817 Elapsed Time = 3.353269E+06 days
9318   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9320   Time Step No. = 1818 Elapsed Time = 3.355269E+06 days
9321   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.05 ( 3.05 sec) Binary
9323   Time Step No. = 1819 Elapsed Time = 3.357269E+06 days
9324   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9326   Time Step No. = 1820 Elapsed Time = 3.359269E+06 days
9327   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9329   Time Step No. = 1821 Elapsed Time = 3.361269E+06 days
9330   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9332   Time Step No. = 1822 Elapsed Time = 3.363269E+06 days
9333   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9335   Time Step No. = 1823 Elapsed Time = 3.365269E+06 days
9336   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.06 ( 3.06 sec) Binary
9338   Time Step No. = 1824 Elapsed Time = 3.367269E+06 days
9339   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9341   Time Step No. = 1825 Elapsed Time = 3.369269E+06 days
9342   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9344   Time Step No. = 1826 Elapsed Time = 3.371269E+06 days
9345   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9347   Time Step No. = 1827 Elapsed Time = 3.373269E+06 days
9348   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9350   Time Step No. = 1828 Elapsed Time = 3.375269E+06 days
9351   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.07 ( 3.07 sec) Binary
9353   Time Step No. = 1829 Elapsed Time = 3.377269E+06 days
9354   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9356   Time Step No. = 1830 Elapsed Time = 3.379269E+06 days
9357   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9359   Time Step No. = 1831 Elapsed Time = 3.381269E+06 days
9360   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9362   Time Step No. = 1832 Elapsed Time = 3.383269E+06 days
9363   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9365   Time Step No. = 1833 Elapsed Time = 3.385269E+06 days
9366   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9368   Time Step No. = 1834 Elapsed Time = 3.387269E+06 days
9369   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9371   Time Step No. = 1835 Elapsed Time = 3.389269E+06 days
9372   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9374   Time Step No. = 1836 Elapsed Time = 3.391269E+06 days
9375   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9377   Time Step No. = 1837 Elapsed Time = 3.393269E+06 days
9378   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9380   Time Step No. = 1838 Elapsed Time = 3.395269E+06 days
9381   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9383   Time Step No. = 1839 Elapsed Time = 3.397269E+06 days
9384   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.08 ( 3.08 sec) Binary
9386   Time Step No. = 1840 Elapsed Time = 3.399269E+06 days
9387   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9389   Time Step No. = 1841 Elapsed Time = 3.401269E+06 days
9390   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9392   Time Step No. = 1842 Elapsed Time = 3.403269E+06 days
9393   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9395   Time Step No. = 1843 Elapsed Time = 3.405269E+06 days
9396   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
9398   Time Step No. = 1844 Elapsed Time = 3.407269E+06 days
9399   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.09 ( 3.09 sec) Binary
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9401   Time Step No. = 1845 Elapsed Time = 3.409269E+06 days
9402   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9404   Time Step No. = 1846 Elapsed Time = 3.411269E+06 days
9405   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9407   Time Step No. = 1847 Elapsed Time = 3.413269E+06 days
9408   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9410   Time Step No. = 1848 Elapsed Time = 3.415269E+06 days
9411   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9413   Time Step No. = 1849 Elapsed Time = 3.417269E+06 days
9414   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9416   Time Step No. = 1850 Elapsed Time = 3.419269E+06 days
9417   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.10 ( 3.10 sec) Binary
9419   Time Step No. = 1851 Elapsed Time = 3.421269E+06 days
9420   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9422   Time Step No. = 1852 Elapsed Time = 3.423269E+06 days
9423   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9425   Time Step No. = 1853 Elapsed Time = 3.425269E+06 days
9426   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9428   Time Step No. = 1854 Elapsed Time = 3.427269E+06 days
9429   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.11 ( 3.11 sec) Binary
9431   Time Step No. = 1855 Elapsed Time = 3.429269E+06 days
9432   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9434   Time Step No. = 1856 Elapsed Time = 3.431269E+06 days
9435   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9437   Time Step No. = 1857 Elapsed Time = 3.433269E+06 days
9438   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9440   Time Step No. = 1858 Elapsed Time = 3.435269E+06 days
9441   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9443   Time Step No. = 1859 Elapsed Time = 3.437269E+06 days
9444   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.12 ( 3.12 sec) Binary
9446   Time Step No. = 1860 Elapsed Time = 3.439269E+06 days
9447   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9449   Time Step No. = 1861 Elapsed Time = 3.441269E+06 days
9450   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9452   Time Step No. = 1862 Elapsed Time = 3.443269E+06 days
9453   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9455   Time Step No. = 1863 Elapsed Time = 3.445269E+06 days
9456   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9458   Time Step No. = 1864 Elapsed Time = 3.447269E+06 days
9459   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
9461   Time Step No. = 1865 Elapsed Time = 3.449269E+06 days
9462   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9464   Time Step No. = 1866 Elapsed Time = 3.451269E+06 days
9465   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9467   Time Step No. = 1867 Elapsed Time = 3.453269E+06 days
9468   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9470   Time Step No. = 1868 Elapsed Time = 3.455269E+06 days
9471   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9473   Time Step No. = 1869 Elapsed Time = 3.457269E+06 days
9474   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9476   Time Step No. = 1870 Elapsed Time = 3.459269E+06 days
9477   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.14 ( 3.14 sec) Binary
9479   Time Step No. = 1871 Elapsed Time = 3.461269E+06 days
9480   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9482   Time Step No. = 1872 Elapsed Time = 3.463269E+06 days
9483   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9485   Time Step No. = 1873 Elapsed Time = 3.465269E+06 days
9486   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9488   Time Step No. = 1874 Elapsed Time = 3.467269E+06 days
9489   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9491   Time Step No. = 1875 Elapsed Time = 3.469269E+06 days
9492   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.15 ( 3.15 sec) Binary
9494   Time Step No. = 1876 Elapsed Time = 3.471269E+06 days
9495   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9497   Time Step No. = 1877 Elapsed Time = 3.473269E+06 days
9498   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9500   Time Step No. = 1878 Elapsed Time = 3.475269E+06 days
9501   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9503   Time Step No. = 1879 Elapsed Time = 3.477269E+06 days
9504   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9506   Time Step No. = 1880 Elapsed Time = 3.479269E+06 days
9507   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.16 ( 3.16 sec) Binary
9509   Time Step No. = 1881 Elapsed Time = 3.481269E+06 days
9510   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9512   Time Step No. = 1882 Elapsed Time = 3.483269E+06 days
9513   Date: 02/14/07 Time: 16:02:44 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
```

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9515   Time Step No. = 1883 Elapsed Time = 3.485269E+06 days
9516   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9518   Time Step No. = 1884 Elapsed Time = 3.487269E+06 days
9519   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9521   Time Step No. = 1885 Elapsed Time = 3.489269E+06 days
9522   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.17 ( 3.17 sec) Binary
9524   Time Step No. = 1886 Elapsed Time = 3.491269E+06 days
9525   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9527   Time Step No. = 1887 Elapsed Time = 3.493269E+06 days
9528   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9530   Time Step No. = 1888 Elapsed Time = 3.495269E+06 days
9531   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9533   Time Step No. = 1889 Elapsed Time = 3.497269E+06 days
9534   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9536   Time Step No. = 1890 Elapsed Time = 3.499269E+06 days
9537   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9539   Time Step No. = 1891 Elapsed Time = 3.501269E+06 days
9540   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9542   Time Step No. = 1892 Elapsed Time = 3.503269E+06 days
9543   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9545   Time Step No. = 1893 Elapsed Time = 3.505269E+06 days
9546   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.18 ( 3.18 sec) Binary
9548   Time Step No. = 1894 Elapsed Time = 3.507269E+06 days
9549   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9551   Time Step No. = 1895 Elapsed Time = 3.509269E+06 days
9552   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9554   Time Step No. = 1896 Elapsed Time = 3.511269E+06 days
9555   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9557   Time Step No. = 1897 Elapsed Time = 3.513269E+06 days
9558   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9560   Time Step No. = 1898 Elapsed Time = 3.515269E+06 days
9561   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9563   Time Step No. = 1899 Elapsed Time = 3.517269E+06 days
9564   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.19 ( 3.19 sec) Binary
9566   Time Step No. = 1900 Elapsed Time = 3.519269E+06 days
9567   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9569   Time Step No. = 1901 Elapsed Time = 3.521269E+06 days
9570   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9572   Time Step No. = 1902 Elapsed Time = 3.523269E+06 days
9573   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9575   Time Step No. = 1903 Elapsed Time = 3.525269E+06 days
9576   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9578   Time Step No. = 1904 Elapsed Time = 3.527269E+06 days
9579   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9581   Time Step No. = 1905 Elapsed Time = 3.529269E+06 days
9582   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9584   Time Step No. = 1906 Elapsed Time = 3.531269E+06 days
9585   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9587   Time Step No. = 1907 Elapsed Time = 3.533269E+06 days
9588   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9590   Time Step No. = 1908 Elapsed Time = 3.535269E+06 days
9591   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.20 ( 3.20 sec) Binary
9593   Time Step No. = 1909 Elapsed Time = 3.537269E+06 days
9594   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9596   Time Step No. = 1910 Elapsed Time = 3.539269E+06 days
9597   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9599   Time Step No. = 1911 Elapsed Time = 3.541269E+06 days
9600   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9602   Time Step No. = 1912 Elapsed Time = 3.543269E+06 days
9603   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9605   Time Step No. = 1913 Elapsed Time = 3.545269E+06 days
9606   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9608   Time Step No. = 1914 Elapsed Time = 3.547269E+06 days
9609   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.21 ( 3.21 sec) Binary
9611   Time Step No. = 1915 Elapsed Time = 3.549269E+06 days
9612   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9614   Time Step No. = 1916 Elapsed Time = 3.551269E+06 days
9615   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9617   Time Step No. = 1917 Elapsed Time = 3.553269E+06 days
9618   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9620   Time Step No. = 1918 Elapsed Time = 3.555269E+06 days
9621   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9623   Time Step No. = 1919 Elapsed Time = 3.557269E+06 days
9624   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.22 ( 3.22 sec) Binary
9626   Time Step No. = 1920 Elapsed Time = 3.559269E+06 days
9627   Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
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9629  Time Step No. = 1921 Elapsed Time = 3.561269E+06 days
9630  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9632  Time Step No. = 1922 Elapsed Time = 3.563269E+06 days
9633  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9635  Time Step No. = 1923 Elapsed Time = 3.565269E+06 days
9636  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9638  Time Step No. = 1924 Elapsed Time = 3.567269E+06 days
9639  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.23 ( 3.23 sec) Binary
9641  Time Step No. = 1925 Elapsed Time = 3.569269E+06 days
9642  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9644  Time Step No. = 1926 Elapsed Time = 3.571269E+06 days
9645  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9647  Time Step No. = 1927 Elapsed Time = 3.573269E+06 days
9648  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9650  Time Step No. = 1928 Elapsed Time = 3.575269E+06 days
9651  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9653  Time Step No. = 1929 Elapsed Time = 3.577269E+06 days
9654  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9656  Time Step No. = 1930 Elapsed Time = 3.579269E+06 days
9657  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.24 ( 3.24 sec) Binary
9659  Time Step No. = 1931 Elapsed Time = 3.581269E+06 days
9660  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9662  Time Step No. = 1932 Elapsed Time = 3.583269E+06 days
9663  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9665  Time Step No. = 1933 Elapsed Time = 3.585269E+06 days
9666  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9668  Time Step No. = 1934 Elapsed Time = 3.587269E+06 days
9669  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9671  Time Step No. = 1935 Elapsed Time = 3.589269E+06 days
9672  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.25 ( 3.25 sec) Binary
9674  Time Step No. = 1936 Elapsed Time = 3.591269E+06 days
9675  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9677  Time Step No. = 1937 Elapsed Time = 3.593269E+06 days
9678  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9680  Time Step No. = 1938 Elapsed Time = 3.595269E+06 days
9681  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9683  Time Step No. = 1939 Elapsed Time = 3.597269E+06 days
9684  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9686  Time Step No. = 1940 Elapsed Time = 3.599269E+06 days
9687  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.26 ( 3.26 sec) Binary
9689  Time Step No. = 1941 Elapsed Time = 3.601269E+06 days
9690  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9692  Time Step No. = 1942 Elapsed Time = 3.603269E+06 days
9693  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9695  Time Step No. = 1943 Elapsed Time = 3.605269E+06 days
9696  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9698  Time Step No. = 1944 Elapsed Time = 3.607269E+06 days
9699  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9701  Time Step No. = 1945 Elapsed Time = 3.609269E+06 days
9702  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9704  Time Step No. = 1946 Elapsed Time = 3.611269E+06 days
9705  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.27 ( 3.27 sec) Binary
9707  Time Step No. = 1947 Elapsed Time = 3.613269E+06 days
9708  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9710  Time Step No. = 1948 Elapsed Time = 3.615269E+06 days
9711  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9713  Time Step No. = 1949 Elapsed Time = 3.617269E+06 days
9714  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9716  Time Step No. = 1950 Elapsed Time = 3.619269E+06 days
9717  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9719  Time Step No. = 1951 Elapsed Time = 3.621269E+06 days
9720  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.28 ( 3.28 sec) Binary
9722  Time Step No. = 1952 Elapsed Time = 3.623269E+06 days
9723  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9725  Time Step No. = 1953 Elapsed Time = 3.625269E+06 days
9726  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9728  Time Step No. = 1954 Elapsed Time = 3.627269E+06 days
9729  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9731  Time Step No. = 1955 Elapsed Time = 3.629269E+06 days
9732  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9734  Time Step No. = 1956 Elapsed Time = 3.631269E+06 days
9735  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9737  Time Step No. = 1957 Elapsed Time = 3.633269E+06 days
9738  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.29 ( 3.29 sec) Binary
9740  Time Step No. = 1958 Elapsed Time = 3.635269E+06 days
9741  Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
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 9743     Time Step No. = 1959 Elapsed Time = 3.637269E+06 days
 9744     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9746     Time Step No. = 1960 Elapsed Time = 3.639269E+06 days
 9747     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9749     Time Step No. = 1961 Elapsed Time = 3.641269E+06 days
 9750     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9752     Time Step No. = 1962 Elapsed Time = 3.643269E+06 days
 9753     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.30 ( 3.30 sec) Binary
 9755     Time Step No. = 1963 Elapsed Time = 3.645269E+06 days
 9756     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9758     Time Step No. = 1964 Elapsed Time = 3.647269E+06 days
 9759     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9761     Time Step No. = 1965 Elapsed Time = 3.649269E+06 days
 9762     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9764     Time Step No. = 1966 Elapsed Time = 3.651269E+06 days
 9765     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9768    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 9776     CPU Time (this time step) = 0.01 sec = 0.00000 hr
 9777     CPU Time (total for run) = 3.13 sec = 0.00087 hr
 9778    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9776     CPU Time (this time step) = 0.00 sec = 0.00000 hr
 9777     CPU Time (total for run) = 3.31 sec = 0.00092 hr
 9778    ********************************************************************************
************
************
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1
 9973     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) ASCII
 9975     Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
 9976     Date: 02/15/07 Time: 12:58:20 CPU Time: 0 0: 0: 3.13 ( 3.13 sec) Binary
 9981    ********************************************************************************
 9982     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 9983     * Completed: 02/15/07 at 12:58:20 Run on: TDN - ALPHA AXP OpenVMS V8.2 *
 9984    ********************************************************************************
******
File PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
 9973     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) ASCII
 9975     Time Step No. = 1967 Elapsed Time = 3.652431E+06 days
 9976     Date: 02/14/07 Time: 16:02:45 CPU Time: 0 0: 0: 3.31 ( 3.31 sec) Binary
 9981    ********************************************************************************
 9982     * End of BRAGFLO Version: 6.0 Revised: 01/15/07 *
 9983     * Completed: 02/14/07 at 16:02:45 Run on: TBB - ALPHA AXP OpenVMS V8.2 *
 9984    ********************************************************************************
************

Number of difference sections found: 38
Number of difference records found: 3841

DIFFERENCES /IGNORE=(SPACING,TRAILING_SPACES,BLANK_LINES)/MERGED=1/OUTPUT=-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14_OUT.DIF;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES45_TEST14.OUT;1-
    PAA:[ANALYSIS.BF.QB0600.ES45.TEST14]BF2_QB0600_ES47_TEST14.OUT;1
```

Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	**Document Review and Comment (DRC)**	**Form Number: NP 6-1-1** **Page 1 of 2**

REVIEW REQUESTER: (e.g., author/Sandia contact)
Complete items 1-6.
Provide the DRC and review document to the reviewer.
REVIEWER:
Review the document applying the criteria specified below, and complete items 7 and 8.
Return DRC to Review Requester/Delegate.
REVIEW REQUESTER/DELEGATE:
If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.
REVIEWER:
Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.
NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management.
Entries must be complete, legible, and in reproducible ink or completed electronically.

1. Document Title: Validation Document for BRAGFLO (Version 6.0) 2. Rev. #: (if applicable) ______

3. Document Description: (e.g. abstract, procedure, SAND report) Report

4. Type of Review & Criteria:

☒ Technical (Technical adequacy, accuracy, completeness)
-Are objectives clearly stated and fulfilled?
-Is the technical activity clearly described?
-Are equations/calculations accurate?
-Does logic lead to reasonable conclusions?
-Are the results drawn from the data supported by data presented?
-Data/tables/figures: Are they easily understood? Are legends complete?

☐ QA (Compliance and completeness)
-Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)?
- Has the technical review been performed by someone who is "independent"? (see NP 6-1, Section 2.2)

☐ Management(Completeness and correctness)
-Is report consistent with policy?
-Is there consensus with other program documents?
-Does the document meet applicable criteria?

☐ Other type of review (please specify or leave blank if not applicable) ______

5. Additional criteria: (if applicable) ______ 6. Review Requester: Daniel J Clayton (Printed Name) Date: 03/05/2007

7. Review Prepared by: Michael Riggins (Reviewer's Printed Name) Eric D Vugrin for Mike Riggins (Reviewer's Signature) 03/28/2007 (Date)

8. One of the following boxes must be checked: ☐ No comments ☒ Comments; record on following pages.

(This section to be left blank if there are no comments requiring a response)

9. Response to comments prepared by: Daniel J Clayton (Review Requester's/Delegate's Printed Name) [signature] (Review Requester's/Delegate's Signature) 04/03/2007 (Date)

10. Response Concurrence: Eric D Vugrin for Mike Riggins (Reviewer's Signature) 04/03/2007 (Date)

Document Review and Comment (DRC)

Form Number: NP 6-1-1
Page 2 **of** 2

Type of Review: ☒ Technical ☐ QA ☐ Management ☐ Other

Document Title: Validation Document for BRAGFLO (Version 6.0) Rev. #:

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
1	N	Entire Document	Below are my comments based on a review of the WIPP PA Validation Document for BRAGFLO Version 6.00. The electronic version of which was supplied to me by Dan Clayton on 03/05/2007. I have conducted an independent technical review to the best of my ability. Due to the extensive nature of the document (1,727 pgs.) and time constraints, I reviewed the text portion (pgs. 1 thru 160) and conducted spot checks of the Appendices (pgs. 161 thru 1727) and computer files residing in the CMS library (LIBBF). None of comments are considered mandatory but all warrant serious consideration and a response or comment.					
2	N	Entire Document	The date on the cover page and in the page headings is February 2007. I checked with Mario earlier on this and he said the date is supposed to be the date that the report is finally submitted, currently an unknown, so it will be filled in latter.	X		Date adjusted to April 2007	X	
3	Y	Section 6.10.3 Input Files pg. 107	Sentence reads in part as: "…ASCII file, BF2_QB0600_TEST10_INP.DIF (Figure 6.10.1). As seen in Figure 6.10.2,…" In the above sentence Figure 6.10.1 should be Figure 6.10.2.	X		Changed	X	
4	Y	Section 6.14.4.5 Cellulosics Microbial Degradation Dependent Chemistry Rates pg. 144	Definitions read as: q_{rsulf} = calculated in Equation 9.14.15, q_{rcarb} = calculated in Equation 9.14.15. Should be Equation 6.14.5.	X		Changed	X	
			LAST COMMENT.					

* Mark Y (Yes) for comments requiring a response from the Review Requester/Delegate.
Mark N (No) for comments not requiring a response from the Review Requester/Delegate.

4/3/07

Vugrin, Eric D

From:	Riggins, Michael
Sent:	Wednesday, March 28, 2007 1:45 PM
To:	Vugrin, Eric D
Cc:	Clayton, Daniel James; Lee, Moo; Chavez, Mario Joseph
Subject:	Signature Authority for BRAGFLO Validation Document
Importance:	High

Eric,

I give signature authority to Eric Vugrin for documents pertaining to the BRAGFLO Version 6.00 Validation Document.

Mike Riggins, PhD
Sandia Nat'l Labs
Org 6711 - WIPP PA
(505) 234-0066 Carlsbad
(512) 482-0008 Austin
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mriggi@sandia.gov

Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	**Document Review and Comment (DRC)**	**Form Number: NP 6-1-1** **Page 1 of** 1

REVIEW REQUESTER: (e.g., author/Sandia contact)
Complete items 1-6.
Provide the DRC and review document to the reviewer.

REVIEWER:
Review the document applying the criteria specified below, and complete items 7 and 8.
Return DRC to Review Requester/Delegate.

REVIEW REQUESTER/DELEGATE:
If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.

REVIEWER:
Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.

NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management.

Entries must be complete, legible, and in reproducible ink or completed electronically.

1. Document Title: Validation Document for BRAGFLO (Version 6.0) 2. Rev. #: (if applicable) ______

3. Document Description: (e.g. abstract, procedure, SAND report) Report

4. Type of Review & Criteria:

☐ Technical (Technical adequacy, accuracy, completeness)
-Are objectives clearly stated and fulfilled?
-Is the technical activity clearly described?
-Are equations/calculations accurate?
-Does logic lead to reasonable conclusions?
-Are the results drawn from the data supported by data presented?
-Data/tables/figures: Are they easily understood? Are legends complete?

☐ QA (Compliance and completeness)
-Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)?
- Has the technical review been performed by someone who is "independent"? (see NP 6-1, Section 2.2)

☒ Management(Completeness and correctness)
-Is report consistent with policy?
-Is there consensus with other program documents?
-Does the document meet applicable criteria?

☐ Other type of review (please specify or leave blank if not applicable) ______

5. Additional criteria: (if applicable) ______

6. Review Requester: Daniel J Clayton (Printed Name) Date: 03/28/2007

7. Review Prepared by: Moo Lee (*Reviewer's Printed Name*) ______ (*Reviewer's Signature*) 3/29/2007 (*Date*)

8. One of the following boxes must be checked: ☒ No comments ☐ Comments; record on following pages.

(This section to be left blank if there are no comments requiring a response)

9. Response to comments prepared by: ______ (*Review Requester's/Delegate's Printed Name*) ______ (*Review Requester's/Delegate's Signature*) ______ (*Date*)

10. Response Concurrence: ______ (*Reviewer's Signature*) ______ (*Date*)

Appendix A

NUCLEAR WASTE MANAGEMENT PROCEDURE Sandia National Laboratories	**Document Review and Comment (DRC)**	**Form Number: NP 6-1-1** **Page 1 of 3**

REVIEW REQUESTER: (e.g., author/Sandia contact)
Complete items 1-6.
Provide the DRC and review document to the reviewer.
REVIEWER:
Review the document applying the criteria specified below, and complete items 7 and 8.
Return DRC to Review Requester/Delegate.
REVIEW REQUESTER/DELEGATE:
If there are comments requiring response, prepare response to each comment on following page(s); complete item 9, and return to reviewer.
REVIEWER:
Review responses to comments. Indicate acceptance or rejection on the DRC and complete item 10.
NOTE: REVIEWER AND REVIEW REQUESTER/DELEGATE are encouraged to discuss comments. If comment(s) cannot be resolved, refer the issue(s) to management.
Entries must be complete, legible, and in reproducible ink or completed electronically.

1. Document Title: Validation Document for BRAGFLO 6.0 Document Version 6.00
2. Rev. #: (if applicable) ____

3. Document Description: (e.g. abstract, procedure, SAND report) Software Document

4. Type of Review & Criteria:

☐ Technical (Technical adequacy, accuracy, completeness)
-Are objectives clearly stated and fulfilled?
-Is the technical activity clearly described?
-Are equations/calculations accurate?
-Does logic lead to reasonable conclusions?
-Are the results drawn from the data supported by data presented?
-Data/tables/figures: Are they easily understood? Are legends complete?

☐ QA (Compliance and completeness)
-Are applicable QA requirements adequately cited/ incorporated and met (content, reviews)?
- Has the technical review been performed by someone who is "independent"? (see NP 6-1, Section 2.2)

☐ Management(Completeness and correctness)
-Is report consistent with policy?
-Is there consensus with other program documents?
-Does the document meet applicable criteria?

☒ Other type of review (please specify or leave blank if not applicable) SCM Coordinator

5. Additional criteria: (if applicable) ____
6. Review Requester: Daniel Clayton (*Printed Name*) Date: 3/28/2007

7. Review Prepared by: Jennifer Long (*Reviewer's Printed Name*) Jennifer Long (*Reviewer's Signature*) 3/30/2007 (*Date*)

8. One of the following boxes must be checked: ☐ No comments ☒ Comments; record on following pages.

(This section to be left blank if there are no comments requiring a response)

9. Response to comments prepared by: Daniel Clayton (*Review Requester's/Delegate's Printed Name*) (*Review Requester's/Delegate's Signature*) 04/05/2007 (*Date*)

10. Response Concurrence: Jennifer Long (*Reviewer's Signature*) 04/05/2007 (*Date*)

Document Review and Comment (DRC)

Form Number:
NP 6-1-1
Page 2 **of** 3

Type of Review: ☐ Technical ☐ QA ☐ Management ☒ Other

Document Title: Validation Document for BRAGFLO Version 6.0 Document Version 6.00 Rev. #:

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
1	Y	List of Tables	Please correct the: Error! Bookmark not defined error.	X		Corrected	X	
2	Y	Section 1.1	Revised Date should be February 12, 2007.	X		Changed	X	
3	Y	Whole document	Name of input diff file should be BF2_QB0600_ES47_TEST*_INP.DIF (missing ES47)	X		Added	X	
4	Y	Section 6.4.2	Shouldn't you include the results from TOUGH run on Test Case #4? BF2_TEST4_T019.DAT and BF2_TEST4_T139.DAT	X		Included	X	
5	Y	Section 6.5.1	Shouldn't you include the Data Files produced by BF2_TEST5_BFDAT.FOR? What about BF2_TEST5_THHX.DAT and BF2_TEST5_THVX.DAT?	X		Included	X	
6	Y	Section 6.6.1	Number 9 should be R.25, Number 10 should be R.27, Number 11 should be R.26, Please also mention functional requirement 18.	X		Changed and added	X	
7	Y	Section 6.7.1	You don't test for R20-R24 either. Please add text to this effect.	X		Added	X	
8	Y	Section 6.7.2	BF2_TEST7_ALGEBRA_Vnnn.CDB and BF2_QB0600_TEST7_Vnnn.CDB does not exist. File names must be wrong.	X		Text removed, not needed in discussion.	X	
9	Y	Section 6.11.3	BF2_TEST11_QA0500_DENNEW.INP should be BF2_TEST11_DENNEW_QA0500.INP.	X		Changed	X	
10	Y	Section 6.11.4	BF2_VMS82_V500_ES47_TEST11.OUT should be BF2_VMS82_V500_ES47_TEST11_DENNEW.OUT	X		Changed	X	
11	Y	Section 6.12.1, 6.12.2, 6.13.2	BRAGFLO Version 5.00 should be BRAGFLO Version 6.0	X		Changed in 6.12.1, not needed in 6.12.2 or 6.13.2	X	
12	Y	Section 6.12.4	Several occurrences: BF2_QB0600_ES47_TEST12_*.DIF should be BF2_QB0600_ES47_TEST12_*_OUT.DIF	X		Changed	X	

Document Review and Comment (DRC)

Form Number:
NP 6-1-1
Page 3 **of** 3

Document Title: Validation Document for BRAGFLO Version 6.0 Document Version 6.00 Rev. #:

Reviewer's Comments (Enter "LAST COMMENT" in row below last entry)				Review Requester's/Delegate's Response			Reviewer's Response	
Comment#	*	Location	Comment	Accept	Reject		Accept	Reject
13	Y	Figure 6.14.1 & 6.14.2	Reposition Figure 6.14.1 and renumber the figure below it to Figure 6.14.2 instead of 6.14.1.		X	Not needed	X	
14	Y	6.14.2, 6.14.4	File name BF2_QB0600_TEST14.OUT should be BF2_QB0600_ES47_TEST14.OUT, BF2_QB0600_TEST14.BIN should be BF2_QB0600_ES47_TEST14.BIN, BF2_QB0600_TEST14.CDB should be BF2_ALG1_QB0600_TEST14.CDB	X		Changed	X	
15	Y	References	2nd add ERMS#503206, 3rd add ERMS#245616, 6th add ERMS#138458, 11th add ERMS#228478, 18th add ERMS#246742, 19th add ERMS#246757, 20th add ERMS#545250	X		Added	X	
			---------------LAST COMMENT---------------------------------					

* Mark Y (Yes) for comments requiring a response from the Review Requester/Delegate.
Mark N (No) for comments not requiring a response from the Review Requester/Delegate.